

# I. Potential References of Interest

## A. Dialog

41/3,K/1 (Item 1 from file: 654)

DIALOG(R)File 654:US PAT.FULL.

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7615030

### UTILITY

#### SERVICE FOR ENABLING USERS TO SHARE INFORMATION REGARDING PRODUCTS REPRESENTED ON WEB PAGES

Inventor: Kahle, Brewster P., San Francisco, CA, US

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Bartolotta, Jeffrey M., San Francisco, CA, US

Cholach, Sondra L., San Francisco, CA, US

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	Publication Number	Kind	Date	Application Number	Filing Date
Main Patent	US 20080162231	A1	20080703	US 200848044	20080313
Division	US 7373313	A		US 2001820207	20010328
Provisional				US 60-199569	20000425

Fulltext Word Count: 13011

#### Description of the Invention:

...the web page. Preferably, the client program 124 or the data server 140 checks to **verify** the entered name is actually present on the web page. The bubble 310 includes a...FIG. 5, the client toolbar web page 608 preferably includes Document Object Model (DOM) manipulation **code** 522 in the form of Javascript. The DOM manipulation **code** 522 is executed to add the web page **embedded** product elements 220 (FIG. 2A) adjacent product representations on the displayed web page 602 by manipulating the web browser's DOM. The DOM manipulation **code** 522 can also be used to make other ...0080] The toolbar **code** 524 is also preferably configured to create bubbles such as the bubble 310 of FIG...

...is viewed by the user. The client bubble web page 532 may also contain client **bubble code** 534, ...identification is preferably included in the client toolbar web page 608 in the form of **embedded code**, which is preferably Javascript. The **embedded code**, which preferably includes the DOM manipulation **code** 522 and the toolbar **code** 524, will be described in greater detail in conjunction with subsequent steps. If the data...scenario, the client program displays the product-identifying

display elements, such as the web page **embedded** product elements 220 of FIG. 2A, adjacent representations of the associated products on the displayed...

...the displayed web page. In this scenario, the client program preferably executes the DOM manipulation **code** 522 **embedded** in the client toolbar web page 608 to add the display elements to the web...

**36/3,K/16 (Item 8 from file: 654)**

DIALOG(R)File 654:US PAT.FULL.

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0004933762 \*\*IMAGE Available

Derwent Accession: 1999-572331

**BUBBLE-PROTECTED SYSTEM FOR AUTOMATIC DECRYPTION OF FILE DATA ON A PER-USE BASIS AND AUTOMATIC RE-ENCRYPTION**

Inventor: DAVID GRAWROCK, INV

Assignee: Symantec Corporation(02)

Correspondence Address: MARTIN C FLIESLER FLIESLER DUBB MEYER & LOVEJOY,  
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Publication Number	Kind	Application Date	Filing Number	Date	
-----	-----	-----	-----	-----	
Main Patent	US	20010044901	A1	20011122	US 9847316 19980324

Fulltext Word Count: 25330

Summary of the Invention:

...on Month Day, 1998 [future issuance number and date to-be  
**determined** ].  
[...]

...remotely via a communications network (e.g., LAN or WAN) so that a  
remotely located, **authorized** persons can quickly access the data when  
needed...

...OTF) decryption and re-encryption system which conveniently decrypts and  
re-encrypts file data for **authorized** users on an as needed basis...

...is possible, however, that security may be inadvertently breached by the  
unwitting actions of an **authorized** user. The **authorized** user may have  
properly logged into the system and provided all the appropriate  
passwords which...

...example, suppose that after properly logging into the system and  
providing all appropriate passwords, the **authorized** user decides to  
connect via the Internet with a Web site or a like source

Description of the Invention:

...other basic re-bootings of the system. The ROM data may specify an  
OS-readable, **unique** serial number for the computer. The computer system  
100 may also include a real-time...

...various kinds of encrypted and plaintext data. Part of that data represents a list of **authorized** users (INCLUDED USER'S LIST) as will be detailed below. Another part of that data...

...0064] As further seen in FIG. 1, disk subsystem 150 stores: (a) a **bubble - based** algorithm 154 for providing access approval or denial to access requests presented via various kinds...

...yet further stores: (j) one or more bubble-lists 162 that are used by the **bubble - based** algorithm 154 for providing access approval or denial to access requests presented via various kinds...

...an encrypted form (ciphertext form) except for times when it is being legitimately used by **authorized** users. At such times, the decrypted data 175 should be kept only in volatile memory...

...is employed, the executing program or OS component of intercept step 201 is tested for **bubble - based** approval or denial by the program approving/denying algorithm 154. One such algorithm is shown...is made of the Excluded Directories List(s) of memory region 155 (FIG. 1) to **determine** whether the requested file is 'contained' in a directory that is identified as an excluded...

...0111] At test step 220, it is **determined** if a decrypted version (real or phantom) 161d of the file data has already been...

...apparently-available? test 220 is Yes, control passes to test step 222 where it is **determined** if the current file-OPEN request issued at the behest of an OTF decryption module...

...security label further includes a list that defines a valid user identification number for each **authorized** user. The OS or another interacting software module is expected to furnish a matching user...

...security label is formed by encrypting the plaintext of the needed decryption key using the **authorized** user's public key pursuant to a so-called public-key/private-key encryption system...

...such a public-key/private-key encryption system.) Accordingly, the private key of the same **authorized** user must be obtained in order to decrypt the encrypted key string corresponding to that...

...the current file requester (obtained from the OS) can be compared against the list of **authorized** users within the file's security label to see if there is a match. Also...

...or additionally, other security tests can be performed in step 226 as deemed appropriate to **determine** whether the requesting user and/or the requesting application program have valid access rights...

...0131] If the result at the access-rights **verification** step 226 is negative (No), then control is passed to point B3 where the intercept...

...0132] If the result at the access-rights **verification** step 226 is instead positive (Yes), then control passes to a decrypting process such as...

...and a decrypted version 161d of the requested file data is made

available to the **authorized** requester. If volume-encryption is being used as an additional protection, the OTF software is...

...subsystem directory 151 and overwriting the original file name (e.g., 'AA.XLS') with a **unique** new file name (e.g., 'JAN...

...0137] In one embodiment, the **unique** new file name is selected as follows. The current time and/or current date is used to generate a **unique** alpha-numeric string (e.g., 'JAN...

...test and revise procedure is repeated until there is no collision. Then the non-colliding **unique** alpha-numeric string (e.g., 'JAN...

...of security methods including the above-mentioned method of encrypting the decryption key with the **authorized** user's public encryption key...

...or to a hash of such data. A corresponding public key is afterwards used to **authenticate** the signature by comparing the decrypted signature (the version decrypted with the public key) against the stored data or a hash thereof. In one embodiment, the last **authorized** user to edit the file is defined as the master of the file 161 and his/her private/public key pair is used respectively to sign and **authenticate** the plaintext. In an alternate embodiment, the private/public key pair of the system administrator is used respectively to sign and **authenticate** the plaintext. The private/public key pair of another entity may yet alternatively be used to respectively to sign and **authenticate** the plaintext...

...causing programs. The MS-Windows95(TM) protocol wherein asterisks (\*) are used for multi-character wild **cards** {including no characters} and question marks (?) are used as single-character wild **cards** may be used. The example at 320b ('\*GEN\*.XLS') accordingly identifies the class of file...

...and the master program under whose supervision the slave was loaded. Section 311c (MASTER/SLAVE) **determines** which of these proximity-of causation designations is to be queried for from the OS...

...matches per the MASTER/SLAVE qualification of section 311c, then section 311d is consulted to **determine** if the response to the name and type-of-causation matches should be an approval...a file-copying primitive-function such as 'COPY.DLL'. In other words, it has been **determined** that 'C:\\*COPY\*.DLL' has no business trying to access a file whose name satisfies...

...DENY and the alert level is that of the current default. This means that no **authorizing** match has been found in the causation-query branch of target-query record 320 and...

...step 450 continues along path 451 to test step 455. In step 455 it is **determined** whether the file-name extension (e.g., the last character string following the last period...

...in step 421, the process continues on to step 422. In step 422, it is **determined** by reading the APPROVE/DENY section (e.g., 311d) of the matched box, what the...

...Temporal and/or geographic approval/denial follows a similar scheme. OTF decryption with plaintext signature **authentication** is an optional additional level of protection...

...If slow path 511 is followed, a test is carried out in step 502 to **determine** if the read primitive is directed to an area of the volume (e.g., of...

...If slow path 561 is followed, a test is carried out in step 552 to **determine** if the write primitive is directed to an area of the volume that is excluded...

...intercept of such an file-OPEN request, THREAD-1 proceeds to step 712 where it **determines** whether decryption is necessary for the to-be-opened file. If decryption is deemed necessary...

Exemplary or Independent Claim(s):

...interceptable file-OPEN requests; (b) selective OPEN continuance means, responsive to the intercept means, for **determining** whether an intercepted file-OPEN request is requesting an open of a file for which...

...identity of a requesting program, (b.1) said selective OPEN continuance means being further for **determining**, if the access request is not denied on the basis of said identity of the...

...to the operating system; (c) plaintext tracking means, responsive to the selective continuance means, for **determining** whether a plaintext version of the sometimes encrypted data of the requested file already exists...

...and (d) a decrypting mechanism, responsive to the plaintext tracking means such that on a **determination** that a plaintext version of the sometimes encrypted data of the requested file does not...

...kept encrypted most of the time; said method comprising at least the step of: (a) **determining** whether an intercepted file-OPEN request is requesting an open of a file for which...

...requesting program; said method further comprising one or more of the following steps if said **determining** step does not generate an access denial decision: (b) using file-exclusion lists to block...

...request caused by one or more causation-events for access to targeted data having a **unique** identity; (b) first testing the identity of the targeted data for satisfaction of a predefined...

Non-exemplary or Dependent Claim(s):

...conveying apparatus of claim 33 wherein (b.1) said predefined target-query condition includes wild **card** designations for specifying the identity of a satisfying target...

...conveying apparatus of claim 33 wherein (c.1) said predefined causation-query condition includes wild **card** designations for specifying the identity of a satisfying causation event...

36/3,K/6 (Item 1 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00518028 \*\*Image available\*\*

**SYSTEM FOR INTERCEPTING FILE ACCESSES AND FOR AUTOMATIC DECRYPTION AND  
RE-ENCRYPTION OF FILE DATA ON A PER-USE BASIS  
SYSTEME PERMETTANT D'INTERCEPTER DES ACCES DE FICHIER, DECRYPTAGE  
AUTOMATIQUE ET RE-CRYPTAGE DES DONNEES D'UN FICHIER AU MOMENT DE SON  
UTILISATION**

Patent Applicant/Assignee:

SYMANTEC CORPORATION,

Inventor(s):

GRAWROCK David,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9949380 A1 19990930

Application: WO 99US5070 19990308 (PCT/WO US9905070)

Priority Application: US 9847316 19980324

Designated States:

(Protection type is "patent" unless otherwise stated - for applications  
prior to 2004)

CA AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

Publication Language: English

Fulltext Word Count: 20951

Fulltext Availability:

Detailed Description

Claims

Detailed Description

... Patent 5,xxx,xxx on

Month Day, 1998 [future issuance number and date to-be  
**determined** ].

3. Description of the Related Art

As knowledge of computers grows; and as use of...remotely via a  
communications network (e.g.,

LAN or WAN) so that a remotely located, **authorized**  
persons can quickly access the data when needed.

The above-identified U.S. patent 5...

...OTF) decryption

and re-encryption system which conveniently decrypts and  
re-encrypts file data for **authorized** users on an asneeded basis.

It is possible, however, that security may be  
inadvertently breached by the unwitting actions of an  
**authorized** user. The **authorized** user may have properly  
logged into the system and provided all the appropriate  
passwords which...

...example, suppose that

after properly logging into the system and providing all  
appropriate passwords, the **authorized** user decides to

connect via the Internet with a Web site or a like source...and other basic rebootings of the system. The ROM data may specify an OS readable, **unique** serial number f or the computer. The computer system 100 may also include a real...various kinds of encrypted and plaintext data. Part of that data represents a list of **authorized** users (INCLUDED USER's LIST) as will be detailed below. Another part of that data...161 and 162.

As further seen in Fig. 1, disk subsystem 150 stores: (a) a **bubble - based** algorithm 154 for providing access approval or denial to access requests presented via various kinds...

...yet further stores: (j) one or more bubble-lists 162 that are used by the **bubble - based** algorithm 154 for providing access approval or denial to access requests presented via various kinds...form (ciphertext form) except for times when it is being - 15 legitimately used by **authorized** users. At such times, the decrypted data 175 should be kept only in volatile memory...is employed, the executing program or OS component of intercept step 201 is tested for **bubble - based** approval or denial by the program approving/denying algorithm 154. One such algorithm is shown...is made of the Excluded Directories List(s) of memory region 155 (Fig. 1) to **determine** whether the requested file is 'contained' in a directory that is identified as an excluded...passes to step 220 by way of connection B1.

At test step 220, it is **determined** if a decrypted version (real or phantom) 161d of the file data has already been...apparently available? test 220 is Yes, control passes to test step 222 where it is **determined** if the current file-OPEN request issued at the behest of an OTF decryption module...security label further includes a list that defines a valid user identification number for each **authorized** user. The OS or ...security label is formed by encrypting the plaintext of the needed decryption key using the **authorized** user's public key pursuant to a so-called public-key/private key encryption system...

...such a public-key/private-key encryption system.) Accordingly, the private key of the same **authorized** user must be obtained in order to decrypt the encrypted key string corresponding to that...

...the current file requester (obtained from the OS) can be compared against the list

of **authorized** users within the file's security label to see if there is a match. Also be performed in step 226 as deemed appropriate to **determine** whether the requesting user and/or the requesting application program have valid access rights.

If the result at the access-rights **verification** step 226 is negative (No), then control is passed to point B3 where the intercept routine forces a 'failed file-open, to occur.

If the result at the access-rights **verification** step 226 is instead positive (Yes), then control passes to a decrypting process such as...

...and a decrypted version 161d of the requested file data is made available to the **authorized** requestor. If volume-encryption is being used as an additional protection, the OTF software is...

...subsystem directory 151 and overwriting the original file name (e.g., 'AA.XLSI) with a **unique** new file name (e.g., 'JAN 98,0011). In one embodiment, the **unique** new file name is selected as follows. The current time and/or current date is used to generate a **unique** alpha-numeric string (e.g., 'JAN 98,0011) conforming to the file-naming - 33 protocol...test and revise procedure is repeated until there is no collision. Then the non-colliding **unique** alpha-numeric string (e.g., 'JAN 98,0021) is used as the new name for...

...of security methods including the above mentioned method of encrypting the decryption key with the **authorized** user's public encryption key.

Step 245 is optional as indicated by the dashed, alternate...or to a hash of such data. A corresponding public key is afterwards used to **authenticate** the signature by comparing the decrypted signature (the version decrypted with the public key) against the stored data or a hash thereof. In one embodiment, the last **authorized** user to edit the file is defined as the master of the file 161 and his/her private/public key pair is used respectively - 35

to sign and **authenticate** the plaintext. In an alternate embodiment, the private/public key pair of the system administrator is used respectively to sign and **authenticate** the plaintext. The private/public key pair of another entity may yet alternatively be used to respectively to sign and **authenticate** the plaintext.

If signature test 245 is passed, control is afterwards transferred to step 250...causing programs. The MS-Windows95 TM



protocol wherein asterisks (\*) are used for multi character wild **cards** {including no characters} and question marks (?) are used as single-character wild **cards** may be used. The example at 320b (\*GEN\*.XLSI) accordingly identifies the class of file...and the master program under whose supervision the slave was loaded. Section 311c (MASTER/SLAVE) **determines** which of these proximity-of-causation designations is to be queried for from the OS.

If...

...matches per the MASTER/SLAVE qualification of section 311c., then section 311d is consulted to **determine** if the response to the name and type-of-causation matches should be an approval...a file-copying primitive-function such as 'COPY.DLL'. In other words, it has been **determined** that IC:  
\*COPY\*.DLLI has no business trying to access a file whose name satisfies...step 450 continues along path 451 to test step 455. In step 455 it is **determined** whether the file-name extension (e.g., the last character string following the last period...in step 421, the process continues on to step 422. In step 422, it is **determined** by reading the APPROVE/DENY section (e.g., 311d) of the matched box, what the...Temporal and/or geographic approval/denial follows a similar scheme. OTF recryption with plaintext signature **authentication** is an optional additional level of protection.

Volume-encryption is a yet further, optional additional...

...If slow path 511 is followed, a test is carried out in step 502 to **determine** if the read primitive is directed to an area of the volume (e.g., of...intercept of such an file-OPEN request, THREAD-1 proceeds to step 712 where it **determines** whether decryption is necessary for the to-be-opened file. If decryption is deemed necessary...

Claim

... b) selective OPEN continuance means [202,210,.212,214], responsive to the intercept means, for **determining** whether an intercepted file-OPEN request is requesting an open of a file for which...

...identity of a requesting program,  
(b.1) said selective OPEN continuance means being further for **determining**, if the access request is not denied on the basis of said identity of the...the operating system;  
(c) plaintext tracking means [2201, responsive to the selective continuance means, for **determining** whether

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a plaintext version of the sometimes encrypted data of the requested file already...

...d) a decrypting mechanism [2401, responsive to the plaintext tracking means such that on a **determination** that a plaintext version of the sometimes encrypted data of the requested file does not...

...kept encrypted most of the time; said method comprising at least the step of:  
(a) **determining** [2021 whether an intercepted file OPEN request is requesting an open of a file for...

...requesting program;  
said method further comprising one or more of the following steps if said **determining** step does not generate an access denial decision:  
(b) using file-exclusion lists to block...caused by one or more causation-events for access to targeted data [161d] having a **unique** identity;  
(b) first testing [4111 the identity of the targeted data for satisfaction of a...

...1061 of  
Claim 33 wherein  
(b.1) said predefined target-query condition [320b] includes wild **card** designations for specifying the identity of a satisfying target.

36 The instruction conveying apparatus [1061 of  
Claim 33 wherein  
(c.1) said predefined causation-query condition [321b] includes wild **card** designations for specifying the identity of a satisfying causation event.

37 The instruction conveying...

### 32/3,K/4 (Item 1 from file: 275)

DIALOG(R)File 275;Gale Group Computer DB(TM)

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01251888 SUPPLIER NUMBER: 06884081 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**Mass-storage options rise to the challenges of size, ruggedness. (includes related article on bubble memory)**

Williams, Tom

Computer Design, v27, n13, p83(7)

July, 1988

ISSN: 0010-4566 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 2446 LINE COUNT: 00193

...ABSTRACT: 2Mbytes. Lithium battery-backed removable CMOS memory cartridges are offering similar capacities and lower cost. **Credit card** -sized memory cards are also offering battery-backed memory for such functions as removable RAM...

... let system integrators easily incorporate bubble storage into their design. In addition, Magnesys produces custom **bubble - based** storage subsystems. According to Bill Morrison, vice-president of sales and marketing at Magnesys, bubble ...modules. Such memory modules come in two basic configurations: preintegrated units with standard interfaces and

**credit - card** -sized devices with connector pins. The card-sized devices require the system designer to implement...

...memory may be the answer.

A more compact form of battery-backed memory is the **credit - card** -sized memory card. Memory cards are modules containing SRAM chips, control circuitry and a long...s available in either 3-1/2- or 5-1/4-in. form factors. It **attaches** as an external unit to NEC or Toshiba laptops via proprietary cabling for backup operations...

**22/3,K/47 (Item 42 from file: 654)**

DIALOG(R)File 654:US PAT.FULL.

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4253126 \*\*IMAGE Available

Derwent Accession: 2000-105008

**Utility**

**E/ Secure open smart card architecture**

Inventor: Kuo, Chih-Cheng, 7 Maidens Bower Ct., Potomac, MD, 20854

Lo, Minwen, 7 Maidens Bower Ct., Potomac, MD, 20854

Assignee: Unassigned

Unassigned Or Assigned To Individual (Code: 68000)

Examiner: Hua, Ly V. (Art Unit: 275)

Assistant Examiner: Hamdan, Wassem

Combined Principal Attorneys: Gibson, Peter

	Publication Number	Kind	Date	Application Number	Filing Date
Main Patent	US 6003134	A	19991214	US 97872	19971230
CIP	US 5754762	A		US 97782063	19970113

Fulltext Word Count: 8199

Summary of the Invention:

...capability of magnetically storing information, has more recently emerged as a valuable product for facilitating **financial** services primarily. **Cards** with an IC microprocessor **embedded** inside and with external contacts for communication with an interface device are known commonly as...

...which is the logical opposite of an identifier is used. The conventional use of an **identifier** requires that an **AND identification** exist in order to allow a program to be run. In the disclosure of Geronimi...

**22/3,K/41 (Item 36 from file: 654)**

DIALOG(R)File 654:US PAT.FULL.

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4383812 \*\*IMAGE Available

Derwent Accession: 1998-542895

**Utility**

**CERTIFICATE OF CORRECTION**

**M/ Countable electronic monetary system and method**

Inventor: Teicher, Mordechai, Kfar Saba, IL

Assignee: Cardis Enterprise International N.V.(03), Curacao, AN

Cardis Enterprise International N V NL  
Examiner: Le, Thien M. (Art Unit: 286)  
Assistant Examiner: Felten, Daniel S  
Law Firm: Darby & Darby

	Publication Number	Kind	Date	Application Number	Filing Date	
Main Patent	US 6119946			A 20000919	US 9850388	19980303
Priority			IL 120585	19970401		

Fulltext Word Count: 22523

Description of the Invention:

...consumers for payment. Payment card 2 is either in the well-known form of a **credit - card** -like plastic **card** with an **embedded** chip, or in any other form, such as key-chain, toll-payment transponder, or part ...In general, also, a received electronic cash file contains transaction records with a transferring device **identification** field which contains the **identifier** for the device that transferred the electronic cash. Transferring devices include, but are not limited...

**22/3,K/36 (Item 31 from file: 654)**

DIALOG(R)File 654:US PAT.FULL.

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4453020 \*\*IMAGE Available

Derwent Accession: 1999-530193

**Utility**

**REASSIGNED**

**M/ Smart card with fingerprint image pass-through**

Inventor: Angelo, Michael F., Houston, TX

Tellez, Mark B., The Woodlands, TX

Park, Steve H., Spring, TX

Assignee: Compaq Computer Corporation(02), Houston, TX

Compaq Computer Corp (Code: 21559)

Examiner: Le, Thien M. (Art Unit: 286)

Assistant Examiner: Felten, Daniel S

Law Firm: Conley, Rose & Tayon, P.C.

	Publication Number	Kind	Date	Application Number	Filing Date	
Main Patent	US 6182892			A 20010206	US 9847915	19980325

Fulltext Word Count: 7326

Description of the Invention:

...security tokens. Currently, smart cards have the approximate look and feel of a standard plastic **bank card**. However, the smart card is **embedded** with a secure (tamper-resistant) silicon chip. The smart card holds information in electronic form...

...FIG. 1 depicts the preferred embodiment of the disclosed methodology for providing fingerprints **authentication** via a **credit card** form

factor. A card 102 (with a credit card form factor) is partially inserted into...

...transmitting an identifier stored in said module which uniquely identifies said module; entering a personal **identification** number; checking said **identifier**, personal **identification** information, and image against said authentication data...

**22/3,K/8 (Item 3 from file: 654)**

DIALOG(R)File 654:US PAT.FULL.

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5340581 \*\*IMAGE Available

Derwent Accession: 2001-603816

**Utility**

**REASSIGNED, CERTIFICATE OF CORRECTION**

**E/ Secure electronic content distribution on CDS and DVDs**

Inventor: Hurtado, Marco M., Boca Raton, FL

Milsted, Kenneth L., Boynton Beach, FL

Gruse, George G., Lighthouse Point, FL

Downs, Edgar, Ft. Lauderdale, FL

Lehman, Christopher T., Delray Beach, FL

Spagna, Richard L., Boca Raton, FL

Lotspicch, Jeffrey B., San Jose, CA

Assignee: International Business Machines Corporation(02), Armonk, NY

International Business Machines Corp (Code: 42640)

Examiner: Nguyen, Cuong (Art Unit: 365)

Combined Principal Attorneys: Gibbons, Jon A.Fleit, Kain, Gibbons, Gutman & Bongini P.L.; Shofli, David M.

	Publication Number	Kind	Date	Application Number	Filing Date
Main Patent	US 6611812	A		20030826	US 99376102 19990817
CIP	US 6389538	A		US 98177096	19981022
CIP	US 6226618	A		US 98133519	19980813

Fulltext Word Count: 50606

Description of the Invention:

...by the Electronic Digital Content Store(s) 103 and what parts are retained in the **embedded** Metadata SC(s) 620...

...Digest Algorithm **ID** --An **identifier** of the algorithm used to compute the digests of the parts...

...Digital Signature Alg **ID** --An **identifier** of the algorithm used to encrypt the digest of the concatenated part digests. This encrypted...

**22/3,K/1 (Item 1 from file: 15)**

DIALOG(R)File 15:ABI/Inform(R)

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02938691 129038781

**"Surveillance society" and "transparent society:" new challenges for society**

Rowley, William

Spectrum v75n2 PP: 16-17 Spring 2002

ISSN: 1067-8530 JRNL CODE: PJSG

...ABSTRACT: would like their financial transactions to be secure. This could be accomplished with biometric identifiers **embedded in credit cards** . However, there is much debate about a national **ID** card with biometric **identifier** . Society will constantly have to weight security versus privacy with freedom being impacted no matter...

## II. Inventor Search Results from Dialog

44/3,K/1 (Item 1 from file: 340)

DIALOG(R)File 340:CLAIMS(R)/US Patent

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10837269 2005-0075984

### E/METHOD TO MAKE TRANSACTIONS SECURE BY MEANS OF CARDS HAVING UNIQUE AND NON-REPRODUCIBLE IDENTIFIERS

Inventors: **Bourrieres Francis** (FR); **Bourrieres Frank** (FR); **Kaiser Clement** (FR)

Assignee: Novatec S A FR

Assignee Code: 55742

Attorney, Agent or Firm: VIDAS, ARRETT & STEINKRAUS, P.A., 6109 BLUE CIRCLE DRIVE, SUITE 2000, MINNETONKA, MN, 55343-9185, US

Publication Number	Kind	Application Date	Number	Date
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US 20050075984 A1		20050407	US 2003712659	20031113
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Priority Applic:

FR 200311527	20031002
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### METHOD TO MAKE TRANSACTIONS SECURE BY MEANS OF CARDS HAVING UNIQUE AND NON-REPRODUCIBLE IDENTIFIERS

Inventors: **Bourrieres Francis** ...

... **Bourrieres Frank** ...

... **Kaiser Clement**

Abstract: ...4) and a remote database (5) connected to a telecommunications network. A unique and nonreproducible **identifier** (3) in the form of a **bubble** code is physically affixed to the card (2) comprising a number (4) contained either on...

...magnetic strip, of a bar code, or in an electronic label. One representation of this **identifier** (6) and/or (7) is stored in the remote database (5) at the same number (4) as that present on the medium. This **identifier** (3) constitutes an unforgeable link between the magnetic strip (1) and the database (5). When...

...recorded on the card, a link authentication is performed by comparing the representation of the **identifier** stored in said database and the actual **identifier** .

Exemplary Claim:

...5) connected to a telecommunications network (9), characterized in that a unique and non-reproducible **identifier** (3) is physically integrated in the medium (2) comprising the number (4), this **identifier** (3) constitutes an unforgeable link between the number (4) located on the medium and information...

...4) in the database (5), said stored information comprises at least one

representation of the **identifier** comprising an image (6) and/or a digital signature (7) of the unique and non-reproducible **identifier** (3), the link authentication is performed by means of a comparison between a representation of the **identifier** (6 or 7) stored in said database (5) and the **identifier** (3) located on the medium (2), and if there is agreement, the transaction is authorized.

**Non-exemplary Claims:**

...telecommunications network (9) according to claim 1, characterized in that the unique and non-reproducible **identifier** (3) constituting the unforgeable link between the number (4) recorded on the medium (2) and the same number (4) recorded in the database (5) is a volume-based **identifier** (3) in which are contained bubbles of random size, shape, and arrangement...

...printed on the receipt of the printer (10), with the real, unique, and non-reproducible **identifier** (3) integrated in the medium (2) comprising the number...

...5) to the number (4) recorded on the medium (2), the unit (12) captures the **identifier** and then the image of this **identifier** is transmitted to the remote database (5), a computation of the signature corresponding to the...

**44/3,K/2 (Item 1 from file: 345)**

DIALOG(R)File 345:Inpadoc/Fam.& Legal Stat  
(c) 2009 EPO. All rts. reserv.

40939608 Family ID: 10939609

<No. of Patents: 3> <No. of Countries: 2>

<No. of Legal Status: 1>

Patent Basic (No,Kind,Date): US 20050075984 A1 20050407

**Method to make transactions secure by means of cards having unique and non-reproducible identifiers (English)**

Patent Assignee: NOVATEC SA (FR)

Author (Inventor): BOURRIERES FRANCIS (FR); KAISER CLEMENT (FR);  
BOURRIERES FRANK (FR)

Record Type: Legal Status; Abstract; Cited Refs

\*\*\*

**Patent Family:**

Patent No	Kd Date	Applic No	Kd Date	Wk Added
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FR 2860670	A1	20050408	FR 200311527	A 20031002 200514
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FR 2860670	B1	20060106	FR 200311527	A 20031002 200602
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US 20050075984	A1	20050407	US 2003712659	A 20031113 200516 (B)
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Priority Data (No,Kind,Date):

FR 200311527	A	20031002
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**All Titles:**

Method to make transactions secure by means of cards having unique and non-reproducible **identifiers**

PROCEDE DE SECURISATION DE TRANSACTION A PARTIR DE CARTES PRESENTANT DES IDENTIFICATEURS UNIQUES ET INREPRODUCTIBLES

**ABSTRACT:**



...and a remote database (5) connected to a telecommunications network. A unique and non-reproducible **identifier** (3) in the form of a **bubble code** is physically affixed to the card (2) comprising a number (4) contained either on...

...magnetic strip, of a bar code, or in an electronic label. One representation of this **identifier** (6) and or (7) is stored in the remote database (5) at the same number (4) as that present on the medium. This **identifier** (3) constitutes an unforgeable link between the magnetic strip (1) and the database (5). When...

...recorded on the card, a link authentication is performed by comparing the representation of the **identifier** stored in said database and the actual **identifier**.

**Abstracts:**

...and a remote database (5) connected to a telecommunications network. A unique and non-reproducible **identifier** (3) in the form of a **bubble code** is physically affixed to the card (2) comprising a number (4) contained either on...

...magnetic strip, of a bar code, or in an electronic label. One representation of this **identifier** (6) and or (7) is stored in the remote database (5) at the same number (4) as that present on the medium. This **identifier** (3) constitutes an unforgeable link between the magnetic strip (1) and the database (5). When...

...recorded on the card, a link authentication is performed by comparing the representation of the **identifier** stored in said database and the actual **identifier**.

Cited Patents:

**44/3,K/3 (Item 1 from file: 349)**

DIALOG(R)File 349:PCT FULLTEXT

(c) 2009 WIPO/THOMSON. All rts. reserv.

01534571 \*\*Image available\*\*

**METHOD FOR CERTIFYING AND SUBSEQUENTLY AUTHENTICATING ORIGINAL PAPER OR DIGITAL DOCUMENTS FOR THE CONSTITUTION OF EVIDENCE  
PROCEDE DE CERTIFICATION ET D'AUTHENTIFICATION ULTERIEURE DE DOCUMENTS  
ORIGINAUX PAPIER OU NUMERIQUES POUR CONSTITUTION DE PREUVES**

Patent Applicant/Assignee:

NOVATEC SA, 350, Avenue d'Italie, ZA Albasud, F-82000 Montauban, FR, FR (Residence), FR (Nationality), (For all designated states except: US)

Patent Applicant/Inventor:

**BOURRIERES Francis**, Chemin du Quart, Les Bardonis, F-82000 Montauban, FR, FR (Residence), FR (Nationality),

**KAISER Clement**, 321, chemin des Cabouillous, Le Carreyrat, F-82000 Montauban, FR, FR (Residence), FR (Nationality),

**BOURRIERES Franck**, Chemin du Quart, Les Bardonis, F-82000 Montauban, FR, FR (Residence), FR (Nationality),

Legal Representative:

NOVATEC SA (common-representative), 350, Avenue d'Italie, ZA Albasud, F-82000 Montauban, FR

Patent and Priority Information (Country, Number, Date):

Patent: WO 200777324 A1 20070712 (WO 0777324)

Application: WO 2006FR2799 20061219 (PCT/WO FR2006002799)

Priority Application: FR 200512985 20051221

Designated States:

(All protection types applied unless otherwise stated - for applications 2004+)

AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM  
DZ EC EE EG ES FI GB GD GE GH GM GT HN HR HU ID IL IN IS JP KE KG KM KN  
KP KR KZ LA LC LK LR LS LT LU LV LY MA MD MG MK MN MW MX MY NZ NA NG NI  
NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SK SL SM SV SY TJ TM TN TR TT  
TZ UA UG US UZ VC VN ZA ZM ZW  
(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LT LU LV MC NL  
PL PT RO SE SI SK TR  
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG  
(AP) BW GH GM KE LS MW MZ NA SD SL SZ TZ UG ZM ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: French

Filing Language: French

Fulltext Word Count: 11953

Patent Applicant/Inventor:

**BOURRIERES Francis , ...**

... **KAISER Clement , ...**

... **BOURRIERES Franck**

Legal Representative:

Fulltext Availability:

Detailed Description

English Abstract

...risk of the evidence being lost. For a physical original document (8)  
associated with a **bubble** seal (7) there is a corresponding  
time-and-date-stamped, proprietary paperless reference counterpart. For  
...

...digital original document (15) there is a corresponding reference  
counterpart in the form of a **bubble** seal (7).

Detailed Description

... un procede de fabrication et d'identification d'un document ainsi que  
le dispositif pour **identifier** ledit document.

L'objet de ce brevet concerne un depot aleatoire de particules finement  
divisees...

**44/3,K/4 (Item 1 from file: 351)**

DIALOG(R)File 351:Derwent WPI

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0015773708 - Drawing available

WPI ACC NO: 2006-335103/200635

XRPX Acc No: N2006-283782

**System e.g. computer, non-intrusion or object e.g. cargo, integrity  
non-violation verification method, involves connecting identifier by wire  
to site/system/object, so that tentative opening of site/system/object  
modifies identifier /wire**

Patent Assignee: NOVATEC SA (NOVA-N); SOC NOVATEC SA (NOVA-N)

Inventor: **BOURRIERES F ; KAISER C**

**Patent Family** (5 patents, 112 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
FR 2877472	A1	20060505	FR 200411734	A	20041104	200635 B
WO 2006048542	A1	20060511	WO 2005FR2706	A	20051027	200635 E
EP 1810266	A1	20070725	EP 2005815185	A	20051027	200750 E
			WO 2005FR2706	A	20051027	
CN 101053003	A	20071010	CN 200580037826	A	20051027	200820 E
			WO 2005FR2706	A	20051027	
US 20080142671	A1	20080619	WO 2005FR2706	A	20051027	200843 E
			US 2007718205	A	20070427	

Priority Applications (no., kind, date): FR 200411734 A 20041104

#### Patent Details

Number	Kind	Lan	Pg	Dwg	Filing	Notes
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FR 2877472	A1	FR	24	6		
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WO 2006048542	A1	FR				
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National Designated States,Original: AE AG AL AM AT AU AZ BA BB BG BR BW  
BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE EG ES FI GB GD GE GH GM HR  
HU ID IL IN IS JP KE KG KM KN KP KR KZ LC LK LR LS LT LU LV LY MA MD MG  
MK MN MW MX MZ NA NG NI NO NZ OM PG PH PL PT RO RU SC SD SE SG SK SL SM  
SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

Regional Designated States,Original: AT BE BG BW CH CY CZ DE DK EA EE ES  
FI FR GB GH GM GR HU IE IS IT KE LS LT LU LV MC MW MZ NA NL OA PL PT RO  
SD SE SI SK SL SZ TR TZ UG ZM ZW

EP 1810266	A1	FR			PCT Application	WO 2005FR2706
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Based on OPI patent WO 2006048542

Regional Designated States,Original: AT BE BG CH CY CZ DE DK EE ES FI FR

GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

CN 101053003	A	ZH			PCT Application	WO 2005FR2706
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Based on OPI patent WO 2006048542

US 20080142671	A1	EN			PCT Application	WO 2005FR2706
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**...computer, non-intrusion or object e.g. cargo, integrity non-violation  
verification method, involves connecting identifier by wire to  
site/system/object, so that tentative opening of site/system/object  
modifies identifier /wire**

Inventor: **BOURRIERES F ...**

**... KAISER C**

**Alerting Abstract** ...NOVELTY - The method involves utilizing a physical unique and non-reproducible **identifier** (3), with bubbles formed by a chaotic process, whose representation is stored in a database. A wire is provided for connecting the **identifier** to a site/system/object, such that any tentative opening of the site/system/object modifies the **identifier** to render the **identifier** non reusable and/or modifies the wire, in a visible manner....ADVANTAGE - The modification of the **identifier** and/or the wire in a visible manner, during tentative opening of the site/system/object, permits verification of the integrity of the **identifier** and its correspondence with its stored representation, thus preventing act of malice. The method thus...

...intrusion or violation. The bubbles are formed by the chaotic process during manufacturing of the **identifier**, thus preventing reproducing of

the **identifier** in a definite way...

### ...3 Identifier

#### Original Publication Data by Authority

##### Argentina

Assignee name & address:

Inventor name & address:

**BOURRIERES F ...**

... **KAISER C ...**

... **BOURRIERES, Francis ...**

... **KAISER, Clement ...**

... **BOURRIERES F ...**

... **KAISER C ...**

... **Bourrieres, Francis ...**

... **Kaiser, Clement ...**

... **BOURRIERES, Francis ...**

... **KAISER, Clement**

Examiner:

#### Original Abstracts:

...consistency of object. It adopts the identifying seal and comprises the physical recognizer (3) with **bubble** produced by the chaos method of the manufacturing process and the recognizer has uniqueness and can not be copied. The representation of the **bubble** recognizer is stored to the database (17) of the local or long-range location in...

...characteristic of which is to be always unique and non-reproducible. A representation of said **identifier** with bubbles is stored in the form of an image and/or digitally in a database local or remote to the address (17), for authentication of the assignment of the **identifier** in situ or on the object for protection. Said authenticator is provided with a physical...

...characteristic of which is to be always unique and non-reproducible. A representation of said **identifier** with bubbles is stored in the form of an image and/or digitally in a database local or remote to the address (<b>17</b>), for authentication of the assignment of the **identifier** in situ or on the object for protection. Said authenticator is provided with a physical...

...characteristic of which is to be always unique and non-reproducible. A representation of said **identifier** with bubbles is stored in the form of an image and/or digitally in a database local or remote to the address (17), for authentication of the assignment of the **identifier** in situ or on the object for protection. Said authenticator is provided with a physical...physique (16) permettant de le relier au lieu a proteger ou a

l'objet a **identifier** . Toute atteinte a l'integrite du sceau que ce soit a travers l'authentificateur et...

**Claims:**

**44/3,K/5 (Item 2 from file: 351)**

DIALOG(R)File 351:Derwent WPI

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0015754827 - Drawing available

WPI ACC NO: 2006-316608/200633

XRPX Acc No: N2006-269204

**Transaction securing and object/document e.g. passport, authenticating method for e.g. Internet, involves comparing representation of bubbles code form identifier in form of image and/or digital signature stored in database and identifier**

Patent Assignee: NOVATEC SA (NOVA-N)

Inventor: **BOURRIERES F ; KAISER C**

**Patent Family** (1 patents, 106 countries)

Patent Application

Number Kind Date Number Kind Date Update

WO 2006042913 A1 20060427 WO 2004FR2676 A 20041019 200633 B

Priority Applications (no., kind, date): WO 2004FR2676 A 20041019

**Patent Details**

Number Kind Lan Pg Dwg Filing Notes

WO 2006042913 A1 FR 26 4

National Designated States,Original: AE AG AL AM AT AU AZ BA BB BG BR BW

BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE EG ES FI GB GD GE GH GM HR

HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW

MX MZ NA NI NO NZ OM PG PH PL PT RO RU SC SD SE SG SK SL SJ TY TM TN TR

TT TZ UA UG US UZ VC VN YU ZA ZM ZW

Regional Designated States,Original: AT BE BG BW CH CY CZ DE DK EA EE ES

FI FR GB GH GM GR HU IE IT KE LS LU MC MW MZ NA NL OA PL PT RO SD SE SI

SK SL SZ TR TZ UG ZM ZW

**...g. passport, authenticating method for e.g. Internet, involves comparing representation of bubbles code form identifier in form of image and/or digital signature stored in database and identifier**

Inventor: **BOURRIERES F ...**

**... KAISER C**

**Alerting Abstract** ...NOVELTY - The method involves physically attaching an **identifier** (3), in the form of bubbles code, to a card or label comprising a number (4). A representation of the **identifier** in the form of an image (6) and/or digital signature (7) is stored in a remote database (5) at the number. The **identifier** constitutes a tamper-resistant link authenticated by comparing the representation and the actual **identifier** (3), upon a call from the database...ADVANTAGE - The comparison of the representation of the bubbles code form **identifier** in the form of an image or digital signature stored in the remote database and the actual bubbles code form **identifier** permits to secure and authorize transaction or validate the authentication of the objects or documents...

...inexpensive manner. The use of the bubbles code enables to prevent the dissimulation of the **identifier**, and constitute a dissuasion unit with respect to forgers who are unable to reproduce it...

...protected by superimposition. The authentication can be performed by visual or automatic comparison of the **identifier** digital signatures or images...

### ...3 Identifier

**Title Terms...**/Index Terms/Additional Words: **BUBBLE** ;

### Original Publication Data by Authority

#### Argentina

Assignee name & address:

Inventor name & address:

**BOURRIERES, Francis ...**

... **KAISER, Clement**

Examiner:

#### Original Abstracts:

...comprising a number (4) and a remote database (5) connected to a telecommunications network. An **identifier** (3) in the **form** of code of bubbles self-generated in chaotic manner whereof the characteristic is to be...

...in the form of a barcode, or in an electronic label. A representation of said **identifier** in the form of an image (6) and/or digital signature (7) is stored in a remote database (5) at the same number (4) as the one on the support. Said **identifier** (3) constitutes a **tamper**-resistant link between the magnetic track (1) or the chip or **RFID** or code and...

...written on the card (2), the link is authenticated by comparing the representation of the **identifier** stored in said **database** (5) and the actual **identifier** (3). If they **match**, the transaction is authorized or the authentication validated. Two authentication modes are possible: the first...

...comparison of the image signatures and the second is automatic by automatic comparison of the **identifier** digital signatures. The **bubbles** code can integrate the brand logo to be protected by superimposition...

#### Claims:

**44/3,K/6 (Item 3 from file: 351)**

DIALOG(R)File 351:Derwent WPI

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0014918049 - Drawing available

WPI ACC NO: 2005-265740/200528

XRPX Ace No: N2005-218522

**Card e.g. bank card, transaction securitization method for shop, involves authenticating connection between card and database by comparison between representation of identifier and real identifier for authorizing**

**transaction by card**

Patent Assignee: NOVATEC SA (NOVA-N)

Inventor: **BOURRIERES F ; KAISER C****Patent Family** (2 patents, 2 countries)

Patent                      Application

Number      Kind      Date      Number      Kind      Date      Update

FR 2860670      A1      20050408      FR 200311527      A      20031002      200528      B

US 20050075984      A1      20050407      US 2003712659      A      20031113      200528      E

Priority Applications (no., kind, date): FR 200311527      A      20031002

**Patent Details**

Number      Kind      Lan      Pg      Dwg      Filing Notes

FR 2860670      A1      FR      13      2

**...method for shop, involves authenticating connection between card and database by comparison between representation of identifier and real identifier for authorizing transaction by card****Original Titles:**Method to make transactions secure by means of cards having unique and non-reproducible **identifiers**Inventor: **BOURRIERES F ...****... KAISER C****Alerting Abstract ...NOVELTY** - The method involves integrating a real **identifier** (3) with a card (2) having a magnetic track (1) with a number (4). A representation of the **identifier** in the form of an image (6) and digital signature (7) is stored in a......connection between the card and database is authenticated by comparison between the representation of the **identifier** and the real **identifier** for authorizing transaction by the card....3 Real **identifier****Original Publication Data by Authority****Argentina**

Assignee name &amp; address:

Inventor name &amp; address:

**BOURRIERES F ...****... KAISER C ...****... BOURRIERES F ...****... Bourrieres, Francis ...****... Kaiser, Clement ...****... Bourrieres, Francis**

Examiner:

**Original Abstracts:**...and a remote database (<b>5</b>) connected to a telecommunications network. A unique and non-reproducible **identifier** (<b>3</b>) in the form

of a **bubble** code is physically affixed to the card (<b>2</b>) comprising a number (<b>4</b>) contained either on...

...magnetic strip, of a bar code, or in an electronic label. One representation of this **identifier** (<b>6</b>) and or (<b>7</b>) is stored in the remote database (<b>5</b>) at the same number (<b>4</b>) as that present on the medium. This **identifier** (<b>3</b>) constitutes an unforgeable link between the magnetic strip (<b>1</b>) and the database (<b>5</b>). When...

...recorded on the card, a link authentication is performed by comparing the representation of the **identifier** stored in said database and the actual **identifier**. >

#### Claims:

...5</b>) connected to a telecommunications network (<b>9</b>), characterized in that a unique and non-reproducible **identifier** (<b>3</b>) is physically integrated in the medium (<b>2</b>) comprising the number (<b>4</b>), this **identifier** (<b>3</b>) constitutes an unforgeable link between the number (<b>4</b>) located on the medium and information...

...4</b>) in the database (<b>5</b>), said stored information comprises at least one representation of the **identifier** comprising an image (<b>6</b>) and/or a digital signature (<b>7</b>) of the unique and non-reproducible **identifier** (<b>3</b>), the link authentication is performed by means of a comparison between a representation of the **identifier** (<b>6</b> or <b>7</b>) stored in said database (<b>5</b>) and the **identifier** (<b>3</b>) located on the medium (<b>2</b>), and if there is agreement, the transaction is authorized.

#### 44/3,K/7 (Item 4 from file: 351)

DIALOG(R) File 351: Derwent WPI  
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0010935318 - Drawing available  
WPI ACC NO: 2001-557584/200162  
XRPX Acc No: N2001-414369

**Method for identifying and authenticating objects, human beings, or transactions designed to optimize reading of a non reproducible identifier**  
Patent Assignee: BOURRIERES F (BOUR-I); KAISER C (KAIS-I); NOVATEC SA (NOVA-N); SOC NOVATEC SA (NOVA-N)

Inventor: BOURRIERES F; KAISER C

**Patent Family** (13 patents, 92 countries)

Patent Number	Application Kind	Date	Number	Kind	Date	Update
WO 2001057831	A1	20010809	WO 2001FR322	A	20010202	200162 B
FR 2804783	A1	20010810	FR 20001403	A	20000204	200162 E
FR 2804784	A1	20010810	FR 200012860	A	20001009	200162 E
AU 200131967	A	20010814	AU 200131967	A	20010202	200173 E
EP 1252616	A1	20021030	EP 2001904039	A	20010202	200279 E
			WO 2001FR322	A	20010202	
US 20030014647	A1	20030116	WO 2001FR322	A	20010202	200308 E
			US 2002182967	A	20020801	
JP 2003521717	W	20030715	JP 2001557005	A	20010202	200347 E
			WO 2001FR322	A	20010202	
EP 1252616	B1	20050907	EP 2001904039	A	20010202	200559 E
			WO 2001FR322	A	20010202	



DE 60113232 E 20051013 DE 60113232 A 20010202 200568 E  
 EP 2001904039 A 20010202  
 WO 2001FR322 A 20010202  
 ES 2248279 T3 20060316 EP 2001904039 A 20010202 200622 E  
 DE 60113232 T2 20060706 DE 60113232 A 20010202 200645 E  
 EP 2001904039 A 20010202  
 WO 2001FR322 A 20010202  
 DE 60113232 T9 20061207 DE 60113232 A 20010202 200680 E  
 EP 2001904039 A 20010202  
 WO 2001FR322 A 20010202  
 US 7380128 B2 20080527 WO 2001FR322 A 20010202 200835 E  
 US 2002182967 A 20020801

Priority Applications (no., kind, date): FR 20001403 A 20000204; FR  
 20003148 A 20000313; FR 200012860 A 20001009

#### Patent Details

Number Kind Lan Pg Dwg Filing Notes

WO 2001057831 A1 FR 23 4

National Designated States,Original: AE AG AL AM AT AU AZ BA BB BG BR BY

BZ CA CH CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN  
 JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX MZ NO NZ PL  
 PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US UZ VN YU ZA ZW

Regional Designated States,Original: AT BE CH CY DE DK EA ES FI FR GB GH

GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZW

AU 200131967 A EN Based on OPI patent WO 2001057831

EP 1252616 A1 FR PCT Application WO 2001FR322

Based on OPI patent WO 2001057831

Regional Designated States,Original: AL AT BE CH CY DE DK ES FI FR GB GR

IE IT LI LT LU LV MC MK NL PT RO SE SI TR

US 20030014647 A1 EN PCT Application WO 2001FR322

JP 2003521717 W JA 20 PCT Application WO 2001FR322

Based on OPI patent WO 2001057831

EP 1252616 B1 FR PCT Application WO 2001FR322

Based on OPI patent WO 2001057831

Regional Designated States,Original: AT BE CH CY DE DK ES FI FR GB GR IE

IT LI LU MC NL PT SE TR

DE 60113232 E DE Application EP 2001904039

PCT Application WO 2001FR322

Based on OPI patent EP 1252616

Based on OPI patent WO 2001057831

ES 2248279 T3 ES Application EP 2001904039

Based on OPI patent EP 1252616

DE 60113232 T2 DE Application EP 2001904039

PCT Application WO 2001FR322

Based on OPI patent EP 1252616

Based on OPI patent WO 2001057831

DE 60113232 T9 DE Application EP 2001904039

PCT Application WO 2001FR322

Based on OPI patent EP 1252616

Based on OPI patent WO 2001057831

US 7380128 B2 EN PCT Application WO 2001FR322

Based on OPI patent WO 2001057831

...and authenticating objects, human beings, or transactions designed to  
 optimize reading of a non reproducible identifier

Inventor: **BOURRIERES F ...**

**... KAISER C**

**Alerting Abstract** ...NOVELTY - Reading of unique non - reproducible volume **identifier** (100) of type including mix of at least two distinguishable materials (110,120). Recognize internal heterogeneous structure in two dimensions of the **identifier** then show evidence to prove its third dimension. Show the volume disposition of material arrangement contained in **identifier** by analysis of shadows (121) generated by material as function of incidence angle of light with respect to the **identifier** . DESCRIPTION - The **identifier** contains bubbles (120). Read and show the volume disposition of the bubbles contained in the **identifier** (100) by successive submission, without delay of the **identifier** , to a diffused light produced by a projection (700) along two dimensions of the **bubble** contours which allows reading and coding. Then submit to illumination which generates a reflection at...

...110) so as to prove its volume aspect. Show the volume disposition (800) of the **identifier** (100) by analysis of the shapes reflected by the bubbles (120) contained in the **identifier** (100) as a function of the illumination. The method uses a bank of lamps passing...

...to create diffuse lighting or a single set is illuminated to create a beam. The **identifier** is a transparent material (110) whose bubbles are auto-generated by a thermal process during...

**...100 identifier**

#### **Original Publication Data by Authority**

##### **Argentina**

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Inventor name & address:

**BOURRIERES, Francis ...**

**... KAISER, Clement ...**

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... BOURRIERES, Francis ...

... KAISER, Clement

Examiner:

44/3,K/8 (Item 1 from file: 654)

DIALOG(R)File 654:US PAT.FULL.

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77044|9

#### UTILITY

#### Tamper-Proof and Reusable High Security Seal

Inventor: Bourrieres, Francis , Montauban, FR

Kaiser, Clement , Montauban, FR

Bourrieres, Franck , Montauban, FR

Assignee: NOVATEC SA, (03), Montauban, FR

Correspondence Address: VIDAS, ARRETT & STEINKRAUS, P.A., SUITE 400, 6640

SHADY OAK ROAD, EDEN PRAIRIE, MN, 55344, US

	Publication Number	Kind	Date	Application Number	Filing Date
Main Patent	US 20080217931	A1	20080911	US 200688916	20061120
PCT	WO 2006FR2564		20061120		

Fulltext Word Count: 4739

Inventor: Bourrieres, Francis ...

... Kaiser, Clement ...

... Bourrieres, Franck

#### Description of the Invention:

...the seal of authority. There are also metal seals or plastic ones integrating a collar **identifier** appearing upon progressive tightening. These seals are not reusable because their destruction is irremediable when...an object or a living being. In this document, it is recommended to attach an **identifier** difficult or impossible to reproduce within the object or living being to identify or authenticate...

...any case to guarantee system or protected location breeches. Indeed, the fact of affixing an **identifier** on an object does not prevent gaining access to the object, modifying it, analyzing it, and from replacing the same **identifier** without detection even if this is not reproducible. In the worst cases, it is even...

...Document WO 01/11591 describes a device which makes it possible to identify objects. This **identifier** has the effect of comprising a matrix of lenses which generates a visual effect in...

...0016] following the example of patent FR2848698, this **identifier** does not allow guarantee of the opening description or the intrusion of the object or0017] The **identifier** described in this document is

reproducible ad infinitum since it rests certainly on a manufacturing process, complex but completely controlled. Consequently the uniqueness of this **identifier** is not assured...

...0018] The **identifier** is not associated with a database...bubbles, always unique and impossible to reproduce with the associated means to interpret it. This **bubble** authenticator, although impossible to reproduce, cannot act alone within the framework of this invention for... example in the form of photography and one or more representations characterizing this shape of **identifier** are stored in a memory or a database either in the form of two dimensional...The patent EP01 904039.3 of the same applicant and inventors suggests this type of **bubble** authenticator with a suitable reading system. In the case of this invention, it is a question of using this **bubble** authenticator in a particular process where the finality or goal is to block or to... controller by what means there was opening. Without leaving the framework of this invention, an **identifier** such as a bar code or electronic (RFID) can be associated with each seal, thus...protected location. If the database is not local but remote a call code constituting the **identifier** of the authenticator in the distant database is used, the call code can be numerical...with the bubbles of two transparent authenticators, it becomes easy to compare all new relative **bubble** positions and thus to prove the opening leading to this change...

**44/3,K/9 (Item 2 from file: 654)**

DIALOG(R)File 654:US PAT.FULL.

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7588523

#### UTILITY

#### Method and Device for Verification of Non Intrusion Into a System and/or Non-Violation of the Integrity of an Object or the Contents Thereof

Inventor: **Bourrieres, Francis**, Montauban, FR

**Kaiser, Clement**, Montauban, FR

**Bourrieres, Frank**, Montauban, FR

Assignee: NOVATEC SA, (03), Montauban, FR

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SHADY OAK ROAD, EDEN PRAIRIE, MN, 55344, US

	Publication Number	Kind	Date	Application Number	Filing Date
Main Patent	US 20080142671	A1	20080619	US 2005718205	20051027
PCT	WO 2005FR2706		20051027		
Priority			FR 0411734	20041104	

Fulltext Word Count: 9415

Inventor: **Bourrieres, Francis** ...

... **Kaiser, Clement** ...

... **Bourrieres, Frank**

Abstract:

...characteristic of which is to be always unique and non-reproducible. A representation of said **identifier** with bubbles is stored in the form of an image and/or digitally in a database local or remote to the address (17), for authentication of the assignment of the **identifier** in situ or on the object for protection. Said authenticator is provided with a physical...

#### Description of the Invention:

...generally bearing the hallmark of the Authority. Metal or plastic seals also exist integrating an **identifier** in the form of a plastic cinch-up tie. These seals are not re-usable...living being without a specific reader. In this document, it is recommended to attach an **identifier** difficult or impossible to reproduce to the object or the living being for identification or...

...guarantee the non-opening of a system or a site for protection. Indeed, affixing an **identifier** on an object does not prevent having access to the object, modifying it, analysing it...

...Document WO 01/11591 describes a device that makes it possible to identify objects. This **identifier** has the characteristic of comprising a matrix of lenses that generates a three-dimensional optical...0022] following the example of patent FR 2848698, this **identifier** does not allow to guarantee the proof of the opening of or the intrusion into...

...0023] The **identifier** described in this document is reproducible ad infinitum as it is based on a manufacturing process admittedly complex but mastered. Consequently the uniqueness of this **identifier** is not guaranteed...

...0024] the **identifier** is not associated with a database...and that is recorded in a database, consequently, even if a person manages to steal **identifiers**, the latter would be of no use as they would not be recorded in the...local or remote database. To ensure the non-reproducibility of the physical authenticator a volumic **identifier** that is the result of a chaotic process impossible to control by man is used...in the form of a photograph and one or several representations characterizing this shape of **identifier** are stored in a memory or a database either in the form of a two...local and/or remote database with the physical authenticator by analysing the similarity of the **bubble** or heterogeneity positions. There are several means of viewing the image: either directly on a...

...in which the database is remote rather than local, a call directing code constituting the **identifier** of the authenticator in the remote database is used, the call directing code may be...they form a complex which is inseparable unless said complex is broken thereby making the **identifier** unusable in this case. The free second end of the wire of which one of...placing an identification plate on the object and then concealing the mechanical system with an **identifier** of the type with bubbles, the whole being integrated into a transparent polymer of the...access to the mechanical system on the one hand and/or prohibiting recovery of the **bubble** code on the other hand. The general object of the invention is to protect the...would be to identify and verify the coherence between a logical signature extracted from the **bubble** code and that stored in the RFID memory. This application proves to be of much...end of the wire (7) is positioned between the free portions

non-occupied by the **identifier** with bubbles as illustrated in 1A. Thereafter and as illustrated in 1B, the end (7...connection between the authenticator and the object for protection. A unique and non-reproducible volumic **identifier** of the type with bubbles (3) is incorporated into the transparent resin (12) before the...0050] A wire (8) passing through the **identifier** (3) positioned and integrated upon production of the complex forming the seal...in a tamper-resistant manner by gluing or direct adherence of the material used during **bubble** generation to the support (19). Upon assembly onto the system or the site for protection...

...In this example an alphanumeric code is engraved on the collar, it constitutes the call **identifier** in the database in order to verify that it is indeed the correct **bubble** code and to acknowledge the authentic object to which it is attached and information associated...not only identification conferred by the RFID, but very high security authentication conferred by the **bubble** code (3) during a check "in situ ...on one same seal affixed to at least two physical elements, and the same call **identifier** then allows to verify all of the authenticators constituting the seal

Exemplary or Independent Claim(s):

...of the system or the site or the object, and that same call or address **identifier** in the database then allows to verify the association between the one and the other...on one same seal affixed to at least two physical elements, and that same call **identifier** then allows to verify all of the authenticators constituting the seal.

Non-exemplary or Dependent Claim(s):

...20) (23) according to claim 1, characterised in that an image of the transparent volumic **identifier** (3) is stored in a memory physically located within the system or the site for...the integrity of an object (20) (23) according to claim 9, characterised in that an **identifier** (17) is associated with the authenticator corresponding to the address thereof in the database...

...3) of which the volume integrates a wire (8) constituting the physical connection between said **identifier** and the system or the site for protection and/or for identification...in that in that the unique and non-reproducible physical volumic authenticator is a volumic **identifier** with bubbles (3) directly integrated into an adhesive label (21) comprising a base that is...

**44/3,K/10 (Item 3 from file: 654)**

DIALOG(R)File 654:US PAT.FULL.

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6054265

Derwent Accession: 2005-265740

**UTILITY**

**Method to make transactions secure by means of cards having unique and non-reproducible identifiers**

Inventor: **Bourrieres, Francis**, Montauban, FR

**Kaiser, Clement**, Montauban, FR

**Bourrieres, Frank**, Montauban, FR

Assignee: Novatec SA, (03), Montauban, 82000, FR  
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	Publication Number	Kind	Date	Application Number	Filing Date
Main Patent	US 20050075984	A1	20050407	US 2003712659	20031113
Priority			FR 200311527	20031002	

Fulltext Word Count: 3219

**Method to make transactions secure by means of cards having unique and non-reproducible identifiers**

Inventor: **Bourrieres, Francis** ...

... **Kaiser, Clement** ...

... **Bourrieres, Frank**

Abstract:

...and a remote database (5) connected to a telecommunications network.  
A unique and non-reproducible **identifier** (3) in the form of a **bubble**  
code is physically affixed to the card (2) comprising a number (4)  
contained either on...

...magnetic strip, of a bar code, or in an electronic label. One  
representation of this **identifier** (6) and or (7) is stored in the  
remote database (5) at the same number (4) as that present on the medium.  
This **identifier** (3) constitutes an unforgeable link between the  
magnetic strip (1) and the database (5). When...

...recorded on the card, a link authentication is performed by comparing  
the representation of the **identifier** stored in said database and the  
actual **identifier** .

Summary of the Invention:

...0004] The invention is characterized in that an always unique and  
non-reproducible **identifier** is physically integrated in the medium  
comprising the number, in that this **identifier** constitutes an  
unforgeable link between the number located on the medium and information  
stored under...

...comprises at least one image and/or numeric signature of the unique and  
non-reproducible **identifier** , in that the link authentication is  
effected by means of a comparison between a representation of the  
**identifier** stored in said database and the **identifier** located on the  
medium, and in that if there is agreement between the two, the...

...0005] Naturally, in addition to the image and/or numeric signature  
corresponding to the **identifier** , the database may also comprise other  
data. As non-limiting examples, this other data could...

Description of the Invention:

...0009] FIG. 3 represents an embodiment of a unique and unforgeable  
**identifier** .

...

...means of creating the non-forgable link in accordance with this invention uses a physical **identifier**. This **identifier** is physically affixed to the unit bearing the number, for example the familiar, standard format, plastic card. Another characteristic of this procedure is brought about by the fact that the **identifier** is always unique and non-reproducible and therefore it constitutes an unforgable link between the...

...as US-2003-0014647-A1, by the same applicants and inventors, proposes a volume-based **identifier** in which three-dimensional bubbles are self-generated and arranged in a random manner that...

...0011] To this end, a volume-based **identifier** containing self-generated bubbles arranged in a random and non-reproducible manner in a transparent substance is one means suitable to create an unforgable link. Said **bubble identifier**, whose identical reproduction is impossible, is affixed on the card-type medium comprising the number. An image of the **identifier**, in which the bubbles and their form, size, and relative position are clearly perceived, is...

...remote database. All one has to do is visually compare the actual and non-reproducible **identifier** affixed to the card-type medium to the image received. The operator can then authenticate...

...of existing infrastructures and therefore without additional investments. Only the card-type media comprising the **bubble volume-based identifier** incur additional **identifier**-related costs. In this case, for the authentication to be complete, the operator must ensure that the **identifier** is three-dimensional...

...automatic. In this case, the card comprising the number and the unique and non-reproducible **identifier** has the number and the **identifier** read by means of a reader comprising the mean(s) adapted for reading. The part of the reader integrating the read mode of the unique and non-reproducible **identifier** can analyze and decide on the **identifier**'s characteristic elements, thereby making the **identifier** non-reproducible. It can also extract the image allowing the signature or code to be...

...the database for the number recorded on the card, the integrated reader simultaneously captures the **identifier**; the **identifier**'s image or its representation is then transmitted to the remote database and a computation...

...exists and the transaction is authorized. In this case, the three-dimensional image of the **identifier** may be verified by subjecting it to different lighting...

...0013] When a **bubble identifier** is utilized as an unforgable link, the three-dimensionality of this **identifier** enables the generation of shadows and/or reflections occupying different positions as a function of the lighting angles. As a result, the same **identifier** generates a plurality of image signatures. These images comprising different shadows



or reflections may be...

...database and used depending on the security level required in transactions. For example, when the **identifier** is read, the reader may capture an image from one lighting angle and request the...

...0014] If the unforgeable **identifier** is comprised of self-generated bubbles, it is preferable to record the number on the...

...matrix-type code. Thus, the same optical reader device will be able to read the **identifier**'s image and the number stored in the two-dimensional code. In this case, one would therefore preferentially arrange the **identifier** and the two-dimensional code in a preferential manner on the card, in such a...

...0015] In order to authenticate an **identifier**, we can access the database with a mobile phone. In that case, the address number...

...database through the keyboard of said phone and by return the picture image of the **identifier** is sent back onto the phone display. The operator can then authenticate by checking the match between the picture signature on the display and the **identifier**. In case of a three dimensional **identifier**, the operator will also have to check the volumic aspect of the later...

...the last generation of mobile phones equipped with digital cameras can be used as an **identifier** reader...

...2) that may be an ISO-format magnetic strip plastic or paper card comprises an **identifier** (3), whose characteristic elements are always unique and unforgeable, is physically affixed to it. The...

...radio at the same number (4) as that recorded on the magnetic strip (1). This **identifier** (3) constitutes the unforgeable link, due to its uniqueness and non-reproducibility, between the magnetic...

...same number (4) located in the database (5) to which corresponds a representation of said **identifier** in the form of an image (6) and a digital signature (7). To validate a...

...certainty at the time of a call (9), one must establish agreement between the physical **identifier** (3) and one of its image (6) or digital (7) representations in the remote database...

...a magnetic reader (8) a card (2) provided with a magnetic strip (1) and a **bubble identifier** (3) whose characteristic feature is that it is always unique and non reproducible. After reading...

...10) on which the image (6) appears. The operator makes a visual comparison between the **bubble identifier** (3) and its image (6) displayed on the terminal (11) and/or on the receipt...

...0019] In the automatic mode, a card (2), bearing a magnetic strip (1) and a **bubble identifier** (3) characterized by always being unique and non reproducible, is inserted into a device comprising a magnetic reader (8) and a **bubble identifier** -capturing device. When the capturing device (12) finishes reading the number (4) contained on the magnetic strip and reading the volume-based authentication of the **bubble**

**identifier** (3), the image is captured and sent via (9) toward the database (5) to the...

...may also be made at the database-level. In the same manner, verification of the **identifier**'s three-dimensional image may be performed either by the scanner or the database or...

...0022] FIG. 3 represents a unique a non reproducible **identifier** in which bubbles having shapes and holding random positions are self-generated. This **bubble identifier** is especially well suited to make applications secure in accordance with this invention. FIG. 3a depicts a view of the **identifier** in which the bubbles are perceived in their three-dimensional volume arrangement. FIG. 3b depicts a top-view of the **identifier** subjected to diffuse lighting and displaying the only two-dimensional image. FIG. 3c depicts a top view of the **identifier** subjected to point lighting and displaying generated reflections thereby proving its three-dimensionality. Depending on

Exemplary or Independent Claim(s):

...5) connected to a telecommunications network (9), characterized in that  
a unique and non-reproducible **identifier** (3) is physically integrated in the medium (2) comprising the number (4),  
this **identifier** (3) constitutes an unforgeable link between the number (4) located on the medium and information...

...4) in the database (5),  
said stored information comprises at least one representation of the **identifier** comprising an image (6) and/or a digital signature (7) of the unique and non-reproducible **identifier** (3),  
the link authentication is performed by means of a comparison between a representation of the **identifier** (6 or 7) stored in said database (5) and the **identifier** (3) located on the medium (2), and  
if there is agreement, the transaction is authorized.

Non-exemplary or Dependent Claim(s):

...telecommunications network (9) according to claim 1, characterized in that the unique and non-reproducible **identifier** (3) constituting the unforgeable link between the number (4) recorded on the medium (2) and the same number (4) recorded in the database (5) is a volume-based **identifier** (3) in which are contained bubbles of random size, shape, and arrangement...

...printed on the receipt of the printer (10), with the real, unique, and non-reproducible **identifier** (3) integrated in the medium (2) comprising the number...

...5) to the number (4) recorded on the medium (2), the unit (12) captures the **identifier** and then the image of this **identifier** is transmitted to the remote database (5), a computation of the signature corresponding to the...

?

### **III. All Files Dialog**

File 2:INSPEC 1898-2009/Apr W4  
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File 88:Gale Group Business A.R.T.S. 1976-2009/May 05  
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Set	Items	Description
S1	783060	IDENTIFIER??
S2	90798	S1(5N)(ID OR IDENTIFICAT????)
S3	0	S1(5N)(BUBBLE()BASED)
S4	0	S1(5N)BUBBLE()(CODE OR CODES OR CODED OR CODING??)
S5	61	S1(5N)(ELECTRONIC()LABEL???)
S6	21	S1(5N)(NON()REPRODUCIBLE)
S7	3781	S1(5N)BARCOD???
S8	165039	S1(5N)(UNIQUE OR SPECIAL OR SECURE??? OR SOLE OR DIFFERENT OR UNGUESSABLE)
S9	12719	S1(5N)(ENCOD? OR ENCIPHER? OR ENCYIPHER?)
S10	5230781	CREDIT()CARD? OR REVOLV?()CREDIT? OR CREDITCARD? OR VISA - OR MASTERCARD? OR MASTERCARD? OR AMEX OR AMERICAN()EXPRESS - OR (CHARGE OR CREDIT OR BANK OR DEBIT OR STORED()VALUE? OR FINANCIAL)(3N)(CARD? ? OR TOKEN? OR INSTRUMENT?)
S11	44021	S10(5N)(AUTHENTICAT? OR VERIF?)
S12	46648	S10(5N)(AUTHORIZ? OR AUTHORIS?)
S13	31782	S10(5N)(DETERMIN? OR CONFIRM?)
S14	12489	S10(5N)(AFFIXED OR ATTACH??? OR .ON. OR EMBED????)
S15	4445	AU=(BOURRIERES, F? OR BOURRIERES? OR KAISER, C? OR KAISER - C? OR FRANCIS(2N)BOURRIERES OR FRANK(2N)BOURRIERES OR CLEMENT-(2N)KAISER)

S16 90641 S2(S)(S2 OR S6 OR S7 OR S8 OR S9)  
 S17 301 S16(S)(S11:S14)  
 S18 178 S17 NOT PY>2003  
 S19 176 RD (unique items)  
 S20 86 S19 NOT VOICE  
 S21 77 S20 NOT GUEST??  
 S22 63 S21 NOT BRAND?  
 S23 76 BUBBLE()(CODE OR CODES OR CODED OR CODING??)  
 S24 835 (BUBBLE()BASED)  
 S25 910 S23 OR S24  
 S26 87 S25 AND (AUTHENTICAT? OR VERIF?)  
 S27 20 S25 AND (AUTHORIZ? OR AUTHORIS?)  
 S28 341 S25 AND (DETERMIN? OR CONFIRM?)  
 S29 198 S25 AND (AFFIXED OR ATTACH??? OR .ON. OR EMBED????)  
 S30 389 S26:S29  
 S31 22 S30 AND (CREDIT()CARD??)  
 S32 18 RD (unique items)  
 S33 74 S30 AND UNIQUE  
 S34 33 S33 AND CARD??  
 S35 20 S34 NOT S32  
 S36 20 RD (unique items)  
 S37 354 RD S30 (unique items)  
 S38 125 S37 NOT (GAS OR THERMAL OR ACOUSTIC?)  
 S39 34 S38(S)(CODE OR CODES OR CODED OR CODING??)  
 S40 24 S39 AND (AUTHENTICAT? OR VERIF?)  
 S41 3 S40 NOT (S32 OR S36)  
 S42 37 S15 AND S1  
 S43 34 RD (unique items)  
 S44 10 S43 AND BUBBLE  
 S45 4213 AU=(BOURRIERES, F? OR BOURRIERES F? OR KAISER, C? OR KAISER  
 C? OR FRANCIS(2N)BOURRIERES OR FRANK(2N)BOURRIERES OR CLEMEN-  
 T(2N)KAISER)  
 ?

36/3,K/1 (Item 1 from file: 88)

DIALOG(R)File 88:Gale Group Business A.R.T.S.

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03934743 SUPPLIER NUMBER: 18338847

**What became of the Japanese "miracle." (economic development in Japan)(Economic Myths Explained)**

Asher, David L.

ORBIS, v40, n2, p215(20)

Spring, 1996

ISSN: 0030-4387 LANGUAGE: English RECORD TYPE: Fulltext; Abstract

WORD COUNT: 10529 LINE COUNT: 00829

... bubble. A veritable industry of social scientists and business

writers sprang up to explain the "**unique** Japanese" and the implications of their success. The writings of the revisionists (so-named by...1991, the business expansion will continue. Thus, steady growth would seem to be in the **cards** over the next 10 years."(7) Indeed, supported by steady capital expenditure increases, as companies...soon made similar pledges. The loan data that became public in the weeks that followed **confirmed** what many had long suspected: a massive gap existed between the percentage of problem loans...

...the auto and electronics industries leading the shift.

The extent of the hollowing-out is **verified** by the Economic Planning Agency's quarterly Tankan survey of business activity. The Tankan questions ...New York and London exchanges. Thus, the market is in the midst of another valuation **bubble**, **based** this time on the faith fickle foreigners place in the Japanese government. If foreign investors...Myths, Illusions, and New Realities

Over the last decade, the effectiveness of many of the **unique** Japanese institutions that captivated social scientists and struck a mixture of fear and awe into...

...to purchase imported products, and merit is starting to matter more than maturity as a **determinant** of employee compensation. Moreover, on the macro-level, Japan's economic problems are beginning to...undoubtedly will have a hard time dealing with Japan's new economic reality. Japan's **unique** economic system may be changing, but there is relatively little evidence, outside of the rise...

### 36/3,K/2 (Item 1 from file: 340)

DIALOG(R)File 340:CLAIMS(R)/US Patent

(c) 2009 IFI/CLAIMS(R). All rts. reserv.

10837269 2005-0075984

### E/METHOD TO MAKE TRANSACTIONS SECURE BY MEANS OF CARDS HAVING UNIQUE AND NON-REPRODUCIBLE IDENTIFIERS

Inventors: Bourrieres Francis (FR); Bourrieres Frank (FR); Kaiser Clement (FR)

Assignee: Novatec S A FR

Assignee Code: 55742

Attorney, Agent or Firm: VIDAS, ARRETT & STEINKRAUS, P.A., 6109 BLUE CIRCLE DRIVE, SUITE 2000, MINNETONKA, MN, 55343-9185, US

Publication Number	Kind	Date	Application Number	Date
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US 20050075984 A1		20050407	US 2003712659	20031113
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Priority Applic: FR 200311527 20031002

### METHOD TO MAKE TRANSACTIONS SECURE BY MEANS OF CARDS HAVING UNIQUE AND NON-REPRODUCIBLE IDENTIFIERS

Abstract: A method for making transactions secure based upon a **card** -type medium (2) comprising a number (4) and a remote database (5) connected to a telecommunications network. A **unique** and nonreproducible identifier (3) in the form of a **bubble code** is physically **affixed** to the **card** (2) comprising a number (4) contained either on a magnetic strip, of a bar



code...

...call is made to the remote database by means of the number recorded on the **card** , a link **authentication** is performed by comparing the representation of the identifier stored in said database and the...

Exemplary Claim:

1. Method for making transactions secure based on a **card** -type medium (2) comprising a number (4) and a remote database (5) connected to a telecommunications network (9), characterized in that a **unique** and non-reproducible identifier (3) is physically integrated in the medium (2) comprising the number...

...of the identifier comprising an image (6) and/or a digital signature (7) of the **unique** and non-reproducible identifier (3), the link **authentication** is performed by means of a comparison between a representation of the identifier (6 or...

...identifier (3) located on the medium (2), and if there is agreement, the transaction is **authorized** .

Non-exemplary Claims:

2. Method for making transactions secure based on a **card** -type medium (2) comprising a number (4) and a remote database (5) connected to a...

...3. Method for making transactions secure based on a **card** -type medium (2) comprising a number (4) and a remote database (5) connected to a...

...4. Method for making transactions secure based on a **card** -type medium (2) comprising a number (4) and a remote database (5) connected to a...

...5. Method for making transactions secure based on a **card** -type medium (2) comprising a number (4) and a remote database (5) connected to a telecommunications network (9) according to claim 1, characterized in that the **unique** and non-reproducible identifier (3) constituting the unforgeable link between the number (4) recorded on...

...6. Method for making transactions secure based on a **card** -type medium (2) comprising a number (4) and a remote database (5) connected to a telecommunications network (9) according to claim 1, characterized in that the **authentication** of the unforgeable link **authorizing** the transaction is performed in a visual manner by an operator (13...

...terminal monitor (11) or printed on the receipt of the printer (10), with the real, **unique** , and non-reproducible identifier (3) integrated in the medium (2) comprising the number...

...8. Method for making transactions secure based on a **card** -type medium (2) comprising a number (4) and a remote database (5) connected to a telecommunications network (9) according to claim 1, characterized in that the **authentication** of the unforgeable link **authorizing** the transaction is performed automatically. When the operators (13) place a call (9) to the...

...is performed and compared to that (7) stored in said database. If there is agreement, **authentication** of the link exists and the transaction is **authorized** .

## YOUR CASE

**36/3,K/3 (Item 1 from file: 345)**

DIALOG(R)File 345:Inpadoc/Fam.& Legal Stat

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40939608 Family ID: 10939609

<No. of Patents: 3> <No. of Countries: 2>

<No. of Legal Status: 1>

Patent Basic (No,Kind,Date): US 20050075984 A1 20050407

**Method to make transactions secure by means of cards having unique and non-reproducible identifiers (English)**

Patent Assignee: NOVATEC SA (FR)

Author (Inventor): BOURRIERES FRANCIS (FR); KAISER CLEMENT (FR); BOURRIERES FRANK (FR)

Record Type: Legal Status; Abstract; Cited Refs

\*\*\*

Patent Family:

Patent No	Kd Date	Applic No	Kd Date	Wk Added
FR 2860670	A1	20050408	FR 200311527	A 20031002 200514
FR 2860670	B1	20060106	FR 200311527	A 20031002 200602
US 20050075984	A1	20050407	US 2003712659	A 20031113 200516 (B)

Priority Data (No,Kind,Date):

FR 200311527 A 20031002

All Titles:

Method to make transactions secure by means of **cards** having unique and non-reproducible identifiers

PROCEDE DE SECURISATION DE TRANSACTION A PARTIR DE CARTES...

ABSTRACT:

...A method for making transactions secure based upon a **card** -type medium

(2) comprising a number (4) and a remote database (5) connected to a telecommunications network. A **unique** and non-reproducible identifier (3) in the form of a **bubble code** is physically **affixed** to the **card** (2) comprising a number (4) contained either on a magnetic strip, of a bar code...

...call is made to the remote database by means of the number recorded on the **card** , a link **authentication** is performed by comparing the representation of the identifier stored in said database and the...

Abstracts:

...identificateur (3) sous forme de code a bulles dont la caracteristique est d'etre toujours **unique** et inreproductible est physiquement **attache** a la carte (2) comportant un numero (4) contenu soit sur une piste magnetique, soit...

...identificateur.

US 20050075984 A1 20050407 (English) A method for making transactions secure based upon a **card** -type medium (2) comprising a number (4) and a remote database (5) connected to a telecommunications network.

A **unique** and non-reproducible identifier (3) in the form of a **bubble code** is physically **affixed** to the **card** (2) comprising a number (4) contained either on a magnetic strip, of a bar code...

...call is made to the remote database by means of the number recorded on the **card** , a link **authentication** is performed by comparing the representation of the identifier stored in said database and the...

Cited Patents:

**36/3,K/4 (Item 1 from file: 348)**

DIALOG(R)File 348:EUROPEAN PATENTS

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01095278

**SYSTEM FOR INTERCEPTING FILE ACCESSES AND FOR AUTOMATIC DECRYPTION AND RE-ENCRYPTION OF FILE DATA ON A PER-USE BASIS**  
**SYSTEM ZUM AUFFANGEN VON DATEIZUGRIFFEN UND ZUM AUTOMATISCHEN ENTSCHLUSSELN UND WIEDER-VERSCHLUSSELN VON DATEIDATEN AUF BENUTZUNGSBASIS**  
**SYSTEME PERMETTANT D'INTERCEPTER DES ACCES DE FICHIER, DECRYPTAGE AUTOMATIQUE ET RE-CRYPTAGE DES DONNEES D'UN FICHIER AU MOMENT DE SON UTILISATION**

PATENT ASSIGNEE:

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LEGAL REPRESENTATIVE:

Barnard, Eric Edward (28021), Brookes Batchellor 102-108 Clerkenwell Road  
, London EC1M 5SA, (GB)

PATENT (CC, No, Kind, Date): EP 1066554 A1 010110 (Basic)

EP 1066554 B1 031015

WO 99049380 990930

APPLICATION (CC, No, Date): EP 99914891 990308; WO 99US5070 990308

PRIORITY (CC, No, Date): US 47316 980324

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;  
LU; MC; NL; PT; SE

INTERNATIONAL PATENT CLASS (V7): G06F-001/00

NOTE:

No A-document published by EPO

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text Language Update Word Count

CLAIMS B (English) 200342 2266

CLAIMS B (German) 200342 2089

CLAIMS B (French) 200342 2789

SPEC B (English) 200342 16960

Total word count - document A 0

Total word count - document B 24104

Total word count - documents A + B 24104

...SPECIFICATION remotely via a communications network (e.g., LAN or WAN)  
so that a remotely located, **authorized** persons can quickly access the  
data when needed.

U.S. A 5,699,428 provides...

...OTF) decryption and re-encryption system which conveniently decrypts and re-encrypts file data for **authorized** users on an as needed basis.

It is possible, however, that security may be inadvertently breached by the unwitting actions of an **authorized** user. The **authorized** user may have properly logged into the system and provided all the appropriate passwords which...

...example, suppose that after properly logging into the system and providing all appropriate passwords, the **authorized** user decides to connect via the Internet with a Web site or a like source...

...other basic re-bootings of the system. The ROM data may specify an OS-readable, **unique** serial number for the computer. The computer system 100 may also include a real-time...various kinds of encrypted and plaintext data. Part of that data represents a list of **authorized** users (INCLUDED USER's LIST) as will be detailed below. Another part of that data...

...161 and 162.

As further seen in Fig. 1, disk subsystem 150 stores: (a) a **bubble - based** algorithm 154 for providing access approval or denial to access requests presented via various kinds...

...yet further stores: (j) one or more bubble-lists 168 that are used by the **bubble - based** algorithm 154 for providing access approval or denial to access requests presented via various kinds...

...an encrypted form (ciphertext form) except for times when it is being legitimately used by **authorized** users. At such times, the decrypted data 175 should be kept only in volatile memory...

...is employed, the executing program or OS component of intercept step 201 is tested for **bubble - based** approval or denial by the program approving/denying algorithm 154. One such algorithm is shown...

...is made of the Excluded Directories List(s) of memory region 155 (Fig. 1) to **determine** whether the requested file is 'contained' in a directory that is identified as an excluded...

...passes to step 220 by way of connection B1.

At test step 220, it is **determined** if a decrypted version (real or phantom) 161d of the file data has already been...apparently-available? test 220 is Yes, control passes to test step 222 where it is **determined** if the current file-OPEN request issued at the behest of an OTF decryption module...

...security label further includes a list that defines a valid user identification number for each **authorized** user. The OS or another interacting software module is expected to furnish a matching user...

...security label is formed by encrypting the plaintext of the needed decryption key using the **authorized** user's public key pursuant to a so-called public-key/private-key encryption system...

...such a public-key/private-key encryption system.) Accordingly, the private key of the same **authorized** user must be obtained in order to decrypt the encrypted key string corresponding to that...

...the current file requester (obtained from the OS) can be compared against the list of **authorized** users within the file's security label to see if there is a match. Also...

...or additionally, other security tests can be performed in step 226 as deemed appropriate to **determine** whether the requesting user and/or the requesting application program have valid access rights.

If the result at the access-rights **verification** step 226 is negative (No), then control is passed to point B3 where the intercept routine forces a 'failed file-open' to occur.

If the result at the access-rights **verification** step 226 is instead positive (Yes), then control passes to a decrypting process such as...

...and a decrypted version 161d of the requested file data is made available to the **authorized** requestor. If volume-encryption is being used as an additional protection, the OTF software is...

...subsystem directory 151 and overwriting the original file name (e.g., 'AA.XLS') with a **unique** new file name (e.g., 'JAN(underscore)1(underscore)98,001').

In one embodiment, the **unique** new file name is selected as follows. The current time and/or current date is used to generate a **unique** alpha-numeric string (e.g., 'JAN(underscore)1(underscore)98,001') conforming to the file...

...test and revise procedure is repeated until there is no collision. Then the non-colliding **unique** alpha-numeric string (e.g., 'JAN(underscore)1(underscore)98,002') is used as the...

...of security methods including the above-mentioned method of encrypting the decryption key with the **authorized** user's public encryption key.

Step 245 is optional as indicated by the dashed, alternate...

...or to a hash of such data. A corresponding public key is afterwards used to **authenticate** the signature by comparing the decrypted signature (the version decrypted with the public key) against the stored data or a hash thereof. In one embodiment, the last **authorized** user to edit the file is defined as the master of the file 161 and his/her private/public key pair is used respectively to sign and **authenticate** the plaintext. In an alternate embodiment, the private/public key pair of the system administrator is used respectively to sign and **authenticate** the plaintext. The private/public key pair of another entity may yet alternatively be used to respectively to sign and **authenticate** the plaintext.

If signature test 245 is passed, control is afterwards transferred to step 250...

...causing programs. The MS-Windows95(TM) protocol wherein asterisks (\*) are used for multi-character wild **cards** (including no characters) and question marks (?) are used as single-character wild **cards** may be used. The example at 320b (\*GEN\*.XLS) accordingly identifies the class of file...

...and the master program under whose supervision the slave was loaded. Section 311c (MASTER/SLAVE) **determines** which of these proximity-of-causation designations is to be queried for from the OS...

...matches per the MASTER/SLAVE qualification of section 311c, then section 311d is consulted to **determine** if the response to the name and type-of-causation matches should be an approval...

...a file-copying primitive-function such as 'COPY.DLL'. In other words, it has been **determined** that 'C:(back slash)\*COPY\*.DLL' has no business trying to access a file whose...DENY and the alert level is that of the current default. This means that no **authorizing** match has been found in the causation-query branch of target-query record 320 and...

...step 450 continues along path 451 to test step 455. In step 455 it is **determined** whether the file-name extension (e.g., the last character string following the last period...

...in step 421, the process continues on to step 422. In step 422, it is **determined** by reading the APPROVE/DENY section (e.g., 311d) of the matched box, what the...

...Temporal and/or geographic approval/denial follows a similar scheme. OTF decryption with plaintext signature **authentication** is an optional additional level of protection.

Volume-encryption is a yet further, optional additional...

...If slow path 511 is followed, a test is carried out in step 502 to **determine** if the read primitive is directed to an area of the volume (e.g., of...

...If slow path 561 is followed, a test is carried out in step 552 to **determine** if the write primitive is directed to an area of the volume that is excluded...

...intercept of such an file-OPEN request, THREAD-1 proceeds to step 712 where it **determines** whether decryption is necessary for the to-be-opened file. If decryption is deemed necessary...

...CLAIMS the bubble-control means effects the denial or approval of data access based on a **unique** identity, such as a serial number, of a machine initiating the request.

7. A machine...

...bubble-control means to effect the denial or approval of data access based on a **unique** identity, such as a serial number, of a machine initiating the request.

27. A method...

...CLAIMS refus ou l'acceptation d'un acces aux donnees sur la base d'une identite **unique**, telle qu'un numero de serie, d'une machine initiant la demande.

7. Systeme de...

...refus ou l'acceptation d'un acces aux donnees sur la base d'une identite **unique**, telle qu'un numero de serie, d'une machine initiant la demande.

27. Procede selon...

36/3,K/5 (Item 2 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
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00451969

**MULTIPLE FACILITY OPERATING SYSTEM ARCHITECTURE  
BETRIEBSSYSTEMAUFBAU MIT MEHREREN VERARBEITUNGSEINHEITEN  
ARCHITECTURE D'UN SYSTEME D'EXPLOITATION COMPRENANT PLUSIEURS UNITES DE  
TRAITEMENT**

**PATENT ASSIGNEE:**

AUSPEX SYSTEMS, INC., (1348490), 2952 Bunker Hill Lane, Santa Clara, CA  
95054, (US), (applicant designated states:  
AT;BE;CH;DE;DK;ES;FR;GB;IT;LI;LU;NL;SE)

**INVENTOR:**

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HARRIS, Guy, 707 Continental Circle Number 1237, Mountain View, CA 94040,  
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**LEGAL REPRESENTATIVE:**

Barnard, Eric Edward et al (28021), BROOKES & MARTIN High Holborn House  
52/54 High Holborn, London WC1V 6SE, (GB)

PATENT (CC, No, Kind, Date): EP 490980 A1 920624 (Basic)

EP 490980 A1 930421

EP 490980 B1 990506

WO 9104540 910404

APPLICATION (CC, No, Date): EP 90914006 900820; WO 90US4701 900820

PRIORITY (CC, No, Date): US 404885 890908

DESIGNATED STATES: AT; BE; CH; DE; DK; ES; FR; GB; IT; LI; LU; NL; SE

INTERNATIONAL PATENT CLASS (V7): G06F-015/16; G06F-015/76; G06F-013/00;

**NOTE:**

No A-document published by EPO

LANGUAGE (Publication,Procedural,Application): English; English; English

**FULLTEXT AVAILABILITY:**

Available Text	Language	Update	Word Count
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CLAIMS B	(English)	9918	945
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CLAIMS B	(German)	9918	741
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CLAIMS B	(French)	9918	1267
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SPEC B	(English)	9918	20729
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Total word count - document A	0
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Total word count - document B	23682
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Total word count - documents A + B	23682
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...SPECIFICATION file server be capable of executing the same or a similar operating system as the **attached** client workstations. The reasons include the need to execute maintenance and monitoring programs on the...  
...consideration is the need to avoid the cost of supporting an operating system that is **unique** to the file server.

Given these considerations, the file server is typically only a conventional...controllers 141-2)), two mass storage processors 161-2)), a bank of four system memory **cards** 181-4)), and a host processor 20 coupled to the backplane bus 22. The invention...

...processor 20, in the preferred embodiments of the present invention, is a Sun central processor **card** , model Sun 3E120, manufactured and distributed by Sun Microsystems, Inc.

Finally, the system memory **cards** 18 each provide 48 megabytes of 32-bit memory for shared use within the computer...

...UFS interacts with a low level software device driver that is directly responsible for an **attached** physical mass storage device. The UFS handles all operations necessary to resolve logical file oriented...Array

Fig. 5 provides a simplified block diagram of the preferred architecture of a memory **card** 18. Each memory **card** 18 operates as a slave on the enhanced VME bus and therefore requires no on...

...ECC) generation and testing unit 158 is coupled to the multiplexer 154 to generate or **verify**, again depending on transfer direction, eight bits of ECC data per memory array word. The status of each ECC **verification** operation is provided back to the timing control block 150.

E. Host Processor  
The host...

...PID). Context execution switches by the peer-level processor are controlled by a process scheduler **embedded** in the facility's multi-tasking kernel. A process may be "active" -- at a minimum...direct the response back to the specific requesting client.

The NC facility similarly provides a **unique** facility ID and the PID of its relevant process to another peer-level facility as...system facility 164 except during the initial phase of bootup. Rather, both generally appear as **unique** but otherwise undifferentiated logical clients of the storage facility 166.

Also interfaced to the VFS...message identified by a message descriptor is evaluated by the receiving messaging kernel layer to **determine** what is to be done with the message. A message descriptor ...bytes. The initial 32-bit word of the message encodes the message type and a **unique** peer-level facility identifier. The text of the message then follows with any necessary fill...

...the K(underscore)MSG message and block format described above.

## 2. IFC Message Generation

The **determination** to send a message, and the nature of the message, is **determined** by the peer-level facilities. In particular, when a process executing on a peer-level...

...of a desired function may be achieved by calling an appropriate routine, that, in turn, **determines** and calls its own service routines. This is illustrated in Fig. 9. A function call...network communications facility, a process is allocated to allow the call to operate in a **unique** context. Thus, the call to or by a stub routine is identifiable by the process...

...handled by the logical call format bubbles A1-X. A message buffer is allocated and **attached** to a message queue. Depending on the particular stub routine called, the contents of the...

...B multi-tasking kernel's free message buffer pool.

Received messages are initially examined to **determine** their message



type. This step is illustrated by the B message parser **bubble**. Based on message type, a corresponding data structure is selected by which the message can be...The communication transaction:

```
fc(underscore)access(  
FC(underscore)STD(underscore)T(cred,file,mode),*(errno) );
```

**determines** whether a given type of file access is legal for specified credentials ("cred") on the...

...facility for configuring the NFS server stack and to respond in support of a secure **authentication** service request. The network communications facility will exchange messages with the file system facility for...will in turn issue the necessary FS communication transactions to obtain file service. If secure **authentication** option is used, the NFS server will issue requests to the **Authentication** server daemon running on the host processor. The conventional **authentication** services include: mapping (ks(underscore)getcred()) a given <network name> to Unix style...

...underscore)route" and "nc(underscore)del(underscore)route" IOCTL commands. Once a route has been **determined** for a particular packet, the packet is dispatched to the appropriate network interface. If a...  
...ip(underscore)pkt() communication transaction. If a packet is destined to a conventional network interface **attached** to the host facility, it is forwarded to the host facility using the "nc(underscore,...as opposed to the name of a service, of the facility that is registering, its **unique** facility ID (VME slot ID) and the shared memory address of its message descriptor FIFO...

```
...underscore)TIME(underscore)REGISTER T,*** );
```

is issued by a facility to the timed daemon to **determine** the system time and to request periodic time synchronization messages. The reply message returns the...

...of VME memory where data transfer takes place. The S facility uses this byte to **determine** the VMEbus protocols to be used for data transfer. Memory(underscore)type is defined as...message. Therefore, when a reply is received, a message sender checks the status word to **determine** how a message is completed. When k(underscore)null(underscore)reply is used, the original...

...grouped into a single logical disk.

Total(underscore)sector is the disk capacity of the **attached** SCSI disks. Total capacity of a disk bank is this number multiplying the number(underscore...IOCTL(underscore)MSG,\*\*\* );

This message is used to address directly any SCSI disk or peripheral **attached** to a SCSI port. Multiple messages can be sent at the same time. They are...

...Scsi(underscore)id, scsi(underscore)port, and  
scsi(underscore)lun(underscore)address identify uniquely one **attached** SCSI peripheral device. Command(underscore)length and  
data(underscore)length specify the lengths of command...S facility buffers, is returned in the completion status word.

This message is used to **verify** if a previous message was received by the S facility. If not, the message is...

...message is sent when there is no active messages. Otherwise, it is very difficult to **determine** how many used messages are in the S facility message buffer. For example if there...

...S facility. The host boot program can then poll this sender(underscore)pid word to **determine** when the message is completed. Messages to the S facility are sent in this manner...

**36/3,K/6 (Item 1 from file: 349)**

DIALOG(R)File 349:PCT FULLTEXT

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00518028 \*\*Image available\*\*

**SYSTEM FOR INTERCEPTING FILE ACCESSES AND FOR AUTOMATIC DECRYPTION AND RE-ENCRYPTION OF FILE DATA ON A PER-USE BASIS**  
**SYSTEME PERMETTANT D'INTERCEPTER DES ACCES DE FICHIER, DECRYPTAGE AUTOMATIQUE ET RE-CRYPTAGE DES DONNEES D'UN FICHIER AU MOMENT DE SON UTILISATION**

Patent Applicant/Assignee:

SYMANTEC CORPORATION,

Inventor(s):

GRAWROCK David,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9949380 A1 19990930

Application: WO 99US5070 19990308 (PCT/WO US9905070)

Priority Application: US 9847316 19980324

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

CA AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

Publication Language: English

Fulltext Word Count: 20951

Fulltext Availability:

Detailed Description

Claims

Detailed Description

... Patent 5,xxx,xxx on

Month Day, 1998 [future issuance number and date to-be **determined**].

3. Description of the Related Art

As knowledge of computers grows; and as use of...remotely via a communications network (e.g.,

LAN or WAN) so that a remotely located, **authorized** persons can quickly access the data when needed.

The above-identified U.S. patent 5...

...OTF) decryption

and re-encryption system which conveniently decrypts and

re-encrypts file data for **authorized** users on an asneeded basis. It is possible, however, that security may be inadvertently breached by the unwitting actions of an **authorized** user. The **authorized** user may have properly logged into the system and provided all the appropriate passwords which...

...example, suppose that after properly logging into the system and providing all appropriate passwords, the **authorized** user decides to connect via the Internet with a Web site or a like source...and other basic rebootings of the system. The ROM data may specify an OS readable, **unique** serial number f of the computer. The computer system 100 may also include a real...various kinds of encrypted and plaintext data. Part of that data represents a list of **authorized** users (INCLUDED USER's LIST) as will be detailed below. Another part of that data...161 and 162.

As further seen in Fig. 1, disk subsystem 150 stores: (a) a **bubble - based** algorithm 154 for providing access approval or denial to access requests presented via various kinds...

...yet further stores: (j) one or more bubble-lists 162 that are used by the **bubble - based** algorithm 154 for providing access approval or denial to access requests presented via various kinds...f orm (ciphertext form) except for times when it is being - 15 legitimately used by **authorized** users. At such times, the decrypted data 175 should be kept only in volatile memory...is employed, the executing program or OS component of intercept step 201 is tested for **bubble - based** approval or denial by the program approving/denying algorithm 154. One such algorithm is shown...is made of the Excluded Directories List(s) of memory region 155 (Fig. 1) to **determine** whether the requested file is 'contained' in a directory that is identified as an excluded...passes to step 220 by way of connection B1.

At test step 220, it is **determined** if a decrypted version (real or phantom) 161d of the file data has already been...apparently available? test 220 is Yes, control passes to test step 222 where it is **determined** if the current file-OPEN request issued at the behest of an OTF decryption module...security label further includes a list that defines a valid user identification number for each **authorized** user. The OS or ...security label is formed by encrypting the plaintext of the needed decryption key using the **authorized** user's public key pursuant to a so-called public-key/private

key encryption system...

...such a public-key/private-key encryption system.) Accordingly, the private key of the same **authorized** user must be obtained in order to decrypt the encrypted key string corresponding to that...

...the current file requester (obtained from the OS) can be compared against the list of **authorized** users within the file's security label to see if there is a match. Also be performed in step 226 as deemed appropriate to **determine** whether the requesting user and/or the requesting application program have valid access rights.

If the result at the access-rights **verification** step 226 is negative (No), then control is passed to point B3 where the intercept routine forces a 'failed file-open, to occur.

If the result at the access-rights **verification** step 226 is instead positive (Yes), then control passes to a decrypting process such as...

...and a decrypted version 161d of the requested file data is made available to the **authorized** requestor. If volume-encryption is being used as an additional protection, the OTF software is...

...subsystem directory 151 and overwriting the original file name (e.g., 'AA.XLSI) with a **unique** new file name (e.g., 'JAN 98,0011). In one embodiment, the **unique** new file name is selected as follows. The current time and/or current date is used to generate a **unique** alpha-numeric string (e.g., 'JAN 98.0011) conforming to the file-naming - 33 protocol...test and revise procedure is repeated until there is no collision. Then the non-colliding **unique** alpha-numeric string (e.g., 'JAN 98.0021) is used as the new name for...

...of security methods including the above mentioned method of encrypting the decryption key with the **authorized** user's public encryption key.

Step 245 is optional as indicated by the dashed, alternate...or to a hash of such data. A corresponding public key is afterwards used to **authenticate** the signature by comparing the decrypted signature (the version decrypted with the public key) against the stored data or a hash thereof. In one embodiment, the last **authorized** user to edit the file is defined as the master of the file 161 and his/her private/public key pair is used respectively - 35

to sign and **authenticate** the plaintext. In an alternate embodiment, the private/public key pair of the system administrator is used respectively to sign and **authenticate** the plaintext. The private/public key pair of another entity may yet alternatively be used to respectively to sign and **authenticate** the plaintext.

If signature test 245 is passed, control is afterwards transferred to step 250...causing programs. The MS-Windows95 TM

protocol wherein asterisks (\*) are used for multi character wild **cards** {including no characters} and question marks (?) are used as single-character wild **cards** may be used. The example at 320b (\*\*GEN\*.XLSI) accordingly identifies the class of file...and the master program under whose supervision the slave was loaded. Section 311c (MASTER/SLAVE) **determines** which of these proximity-of-causation designations is to be queried for from the OS.

If..

...matches per the MASTER/SLAVE qualification of section 311c., then section 311d is consulted to **determine** if the response to the name and type-of-causation matches should be an approval...a file-copying primitive-function such as 'COPY.DLL'. In other words, it has been **determined** that IC: \*COPY\*.DLL has no business trying to access a file whose name satisfies...step 450 continues along path 451 to test step 455. In step 455 it is **determined** whether the file-name extension (e.g., the last character string following the last period...in step 421, the process continues on to step 422. In step 422, it is **determined** by reading the APPROVE/DENY section (e.g., 311d) of the matched box, what the...Temporal and/or geographic approval/denial follows a similar scheme. OTF reencryption with plaintext signature **authentication** is an optional additional level of protection.

Volume-encryption is a yet further, optional additional...

...If slow path 511 is followed, a test is carried out in step 502 to **determine** if the read primitive is directed to an area of the volume (e.g., of...intercept of such an file-OPEN request, THREAD-1 proceeds to step 712 where it **determines** whether decryption is necessary for the to-be-opened file. If decryption is deemed necessary...

Claim

... b) selective OPEN continuance means [202,210,...212,2141, responsive to the intercept means, for **determining** whether an intercepted file-OPEN request is requesting an open of a file for which...

...identity of a requesting program,  
(b.1) said selective OPEN continuance means being further for **determining**, if the access request is not denied on the basis of said identity of the...the operating system;  
(c) plaintext tracking means [220], responsive to the selective continuance means, for **determining** whether  
- 69  
a plaintext version of the sometimes encrypted data of the requested file already...

...d) a decrypting mechanism [240], responsive to the plaintext tracking means such that on a **determination** that a plaintext version of the sometimes encrypted data of the requested file does not...  
...kept encrypted most of the time; said method comprising at least the step of:  
(a) **determining** [202] whether an intercepted file OPEN request is requesting an open of a file for...

...requesting program;  
said method further comprising one or more of the following steps if said **determining** step does not generate an access denial decision:  
(b) using file-exclusion lists to block...caused by one or more causation-events for access to targeted data [161d] having a **unique** identity;  
(b) first testing [411] the identity of the targeted data for satisfaction of a...

...1061 of  
Claim 33 wherein  
(b.1) said predefined target-query condition [320b] includes wild **card** designations for specifying the identity of a satisfying target.

36 The instruction conveying apparatus [1061 of  
Claim 33 wherein  
(c.1) said predefined causation-query condition [321b] includes wild **card** designations for specifying the identity of a satisfying causation event.

37 The instruction conveying...

**36/3,K/7 (Item 2 from file: 349)**  
DIALOG(R)File 349:PCT FULLTEXT  
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00187197 \*\*Image available\*\*

**MULTIPLE FACILITY OPERATING SYSTEM ARCHITECTURE  
ARCHITECTURE D'UN SYSTEME D'EXPLOITATION COMPRENANT PLUSIEURS UNITES DE  
TRAITEMENT**

Patent Applicant/Assignee:  
AUSPEX SYSTEMS INC,  
Inventor(s):

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Patent and Priority Information (Country, Number, Date):  
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Application: WO 90US4701 19900820 (PCT/WO US9004701)  
Priority Application: US 89885 19890908  
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Fulltext Availability:  
Detailed Description

#### Detailed Description

... file  
server be capable of executing the same or a similar  
operating system as the **attached** client workstations.

The reasons include the need to execute maintenance  
and monitoring programs on the...

...consideration is the need to avoid the cost  
of supporting an operating system that is **unique** to the  
file server.

Given these considerations., the file server is  
typically only a conventional...1-2" two mass storage processors 16 1-2"  
a  
bank of four system memory **cards** 18 1-41 and a host  
processor 20 coupled to the backplane bus 22. The...processor 20, in the  
preferred  
embodiments of the present invention, is a Sun central  
processor **card**, model Sun 3E120, manufactured and  
distributed by Sun Microsystems, Inc.

Finally, the system memory **cards** 18 each provide  
48 megabytes of 32-bit memory for shared use within the  
computer...UFS interacts with a low level  
software device driver that is directly responsible for  
an **attached** physical mass storage device. The UFS  
handles all operations necessary to resolve logical  
file oriented...Array  
Fig. 5 provides a simplified block diagram of the  
preferred architecture of a memory **card** 18. Each  
memory **card** 18 operates as a slave on the enhanced VME  
bus and therefore requires no on...

...ECC)  
generation and testing unit 158 is coupled to the  
multiplexer 154 to generate or **verify**, again depending  
on transfer direction, eight bits of ECC data per  
memory array word. The status of each ECC **verification**

operation is provided back to the timing control block 150.

E. Host Processor

The host...PID). Context execution switches by the peer-level processor are controlled by a process scheduler **embedded** in the facility's multi-tasking kernel. A process may be "active" -- at a minimum...

...direct the response back to the specific requesting client.

The NC facility similarly provides a **unique** facility ID and the PID of its relevant process to another peer-level facility as...system facility 164 except during the initial phase of bootup. Rather., both generally appear as **unique** but otherwise undifferentiated logical clients of the storage facility 166.

Also interfaced to the VFS...message identified by a message descriptor is

evaluated by the receiving messaging kernel layer to **determine** what is to be done with the message. A message descriptor as used by a...bytes. The initial 32-bit word of the message encodes the message type and a **unique** peer-level facility identifier. The text of the message then follows with any necessary fill...of the K MSG message and block format described above.

## 2. IFC Message Generation

The **determination** to send a message, and the nature of the message, is **determined** by the peer-level facilities. In particular, when a process executing on a peer-level...

...of a desired function may be achieved by calling an appropriate routine, that, in turn, **determines** and calls its own service routines. This is illustrated in Fig. 9. A function call...network communications facility, a process is allocated to allow the call to operate in a **unique** context. Thus, the call to or by a stub routine is identifiable by the process...

...handled by the logical call format bubbles A1-X. A message buffer is allocated and **attached** to a message queue. Depending on the particular stub routine called, the contents of the...B multi-tasking kernel's free message buffer pool.

Received messages are initially examined to **determine** their message type. This step is illustrated by the B message parser **bubble**. **Based** on message type, a corresponding data structure is selected by which the



message can be...system, respectively, are flushed.

The communication transaction.

```
fc-access( FC-STD-Ticred,file,model,*lerno)
determines whether a given type of file access is legal
for specified credentials ("cred") on the...I6T,*
nc recvpromispt (NC'PKT'I0T',*)
nc@forward ippkt (NC'PKT'I6T'*
Secure Authentication Messages
ks-decrypt ( KS.DECRYPT.T(netname,netnamelen,desblock),
***Irpcstatus,ksstatus,desblockI
ks.getcred ( KS...
```

...facility for configuring the NFS server stack and to respond in support of a secure **authentication** service request. The network communications facility will exchange messages with the file system facility for...will in turn issue the necessary FS communication transactions to obtain file service. If secure **authentication** option is used, the NFS server will issue requests to the **Authentication** server daemon running on the host processor. The conventional **authentication** services include: mapping (ks getcredo) a given <network name> to Unix style credential, decrypting (ks...

...the 'Inc.ada.routell and 'Inc-del.routell IOCTL commands. Once a route has been **determined** for a particular packet, the packet is dispatched to the appropriate network interface. If a...

```
...forward
ip
pkto' communication
transaction. If a packet is destined to a conventional
network interface attached to the host facility, it is
forwarded to the host facility using the
'Inc-forward...typedef struct
long val[2]; /* file system id type
fsid-t;
File identifier. Should be unique per filesystem
on asingle machine.
```

```
#define MkXFIDSZ 16
struct fid (
u short fid len; /* length...
```

```
...exported
long flags; /* flags
u.short anon; /* uid for unauthenticated
requests */
long auth; /* switch for authentication
type
union {
```

NC UNIXEXPORT exunix; /\* case AUTH-UNIX  
NC DESEXPORT exdes; /\* case AUTH DES  
un...pad2;  
PKT -DATA-BUFFER pkt.buflist[MA]@  
DL.BUFFRAG+11;  
NC-PKT-IO-T;  
Secure **Authentication** Server Communication  
transactions  
Name under which the key server registers.

#define KEYSERV-NAME IKEYSERV7  
/\* Key...as opposed to the name of a  
service, of the facility that is registering, its  
**unique** facility ID (VME slot ID) and the shared memory  
address of its message descriptor FIFO...provides access to the  
conventional Unix daemon that, in turn,  
provides access to keys which **authenticate**  
users.

FS Facility Resident  
FC-VICE-PRES - executes on the FC peer-level  
processor,, or...register ( SC-TIME-REGISTER T,\*\*  
is issued by a facility to the timed daemon to  
**determine** the system time and to request periodic time  
synchronization messages. The reply message returns  
the...of VME  
memory where data transfer takes place. The S facility  
uses this byte to **determine** the VMEbus protocols to be  
used for data transfer. Memorytype is defined as.

03 Primary...message.

Therefore, when a reply is received, a message sender  
checks the status word to **determine** how a message is  
completed. When k-null  
reply is used, the original  
message is...

...are  
grouped into a single logical disk.

Total.sector is the disk capacity of the **attached**  
SCSI disks. Total capacity of a disk bank is this  
number multiplying the number-of...SP  
IOCTL MSG,\*\*  
This message is used to address directly any SCSI disk  
or peripheral **attached** to a SCSI port. Multiple  
messages can be sent at the same time. They are...

...by the S facility.

Scsi-id, scsi.  
port, and scsi-lun-address identify  
uniquely one **attached** SCSI peripheral device.

Command.length and data-length specify the lengths of

command and data...S facility buffers, is returned in the completion status word.

This message is used to **verify** if a previous message was received by the S facility. If not,, the message is...

...message is sent when there is no active messages. Otherwise,, it is very difficult to **determine** how many used messages are in the S facility message buffer. For example if there...to the S facility. The host boot program can then poll this senderpid word to **determine** when the message is completed. Messages to the S facility are sent in this...

### 36/3,K/8 (Item 1 from file: 351)

DIALOG(R)File 351:Derwent WPI

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0014918049 - Drawing available  
WPI ACC NO: 2005-265740/200528  
XRPX Acc No: N2005-218522

Card **e.g. bank** card , transaction securitization method for shop, involves authenticating connection between card and database by comparison between representation of identifier and real identifier for authorizing transaction by card

Patent Assignee: NOVATEC SA (NOVA-N)

Inventor: BOURRIERES F; KAISER C

**Patent Family** (2 patents, 2 countries)

Patent

Application

Number	Kind	Date	Number	Kind	Date	Update
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FR 2860670	A1	20050408	FR 200311527	A	20031002	200528 B
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US 20050075984	A1	20050407	US 2003712659	A	20031113	200528 E
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Priority Applications (no., kind, date): FR 200311527 A 20031002

### Patent Details

Number	Kind	Lan	Pg	Dwg	Filing	Notes
--------	------	-----	----	-----	--------	-------

FR 2860670	A1	FR	13	2		
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Card **e.g. bank** card , transaction securitization method for shop, involves authenticating connection between card and database by comparison between representation of identifier and real identifier for authorizing transaction by card

### Original Titles:

Method to make transactions secure by means of **cards** having unique and non-reproducible identifiers

**Alerting Abstract** ...NOVELTY - The method involves integrating a real identifier (3) with a **card** (2) having a magnetic track (1) with a number (4). A representation of the identifier...

...signature (7) is stored in a database (5) at same number. A connection between the **card** and database is **authenticated** by comparison between the representation of the identifier and the real identifier for

**authorizing** transaction by the **card** . USE - Used in a shop for securitization of transaction effectuated by a **card** e.g. bank **card** , loyalty **card** , subscription **card** and access control **card** .

...

...ADVANTAGE - The method is simple and can securitize the transaction effectuated by the **card** at relatively low cost that is acceptable to all users. The method can automatically **authenticate** the connection between the **card** and database...

...drawing shows a principle diagram of a method for securitization of transaction effectuated from a **card** .

...

...2 **Card**

**Title Terms/Index Terms/Additional Words:** **CARD** ; ...

... **AUTHORISE**

#### **Original Publication Data by Authority**

##### **Argentina**

Assignee name & address:

##### **Original Abstracts:**

A method for making transactions secure based upon a **card** -type medium (<b>2</b>) comprising a number (<b>4</b>) and a remote database (<b>5</b>) connected to a telecommunications network. A **unique** and non-reproducible identifier (<b>3</b>) in the form of a **bubble code** is physically **affixed** to the **card** (<b>2</b>) comprising a number (<b>4</b>) contained either on a magnetic strip, of a bar code...

...call is made to the remote database by means of the number recorded on the **card** , a link **authentication** is performed by comparing the representation of the identifier stored in said database and the...

##### **Claims:**

<b>1</b>. Method for making transactions secure based on a **card** -type medium (<b>2</b>) comprising a number (<b>4</b>) and a remote database (<b>5</b>) connected to a telecommunications network (<b>9</b>), characterized in that a **unique** and non-reproducible identifier (<b>3</b>) is physically integrated in the medium (<b>2</b>) comprising the number...

...of the identifier comprising an image (<b>6</b>) and/or a digital signature (<b>7</b>) of the **unique** and non-reproducible identifier (<b>3</b>), the link **authentication** is performed by means of a comparison between a representation of the identifier (<b>6</b> or...

...identifier (<b>3</b>) located on the medium (<b>2</b>), and if there is agreement, the transaction is **authorized**.

**36/3,K/9 (Item 1 from file: 654)**

DIALOG(R)File 654:US PAT.FULL.

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7776945

# UTILITY

## Method for Certifying and Subsequently Authenticating Original, Paper of Digital Documents for Evidences

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	Publication Number	Kind	Application Date	Filing Number	Date
Main Patent	US 20080267511	A1	20081030	US 2006158409	20061109
PCT	WO 2006FR2799		20061109		
Priority			FR 200512985	20051221	

Fulltext Word Count: 10958

## Method for Certifying and Subsequently Authenticating Original, Paper of Digital Documents for Evidences

### Abstract:

[00000] The present invention relates to a method for certifying and subsequently **authenticating** original physical or digital documents. The concept of the evidence lies in the dual nature...

### Summary of the Invention:

[0060] Top (1) of scanner is a transparent glass that receives the document to be **authenticated**. Mobile part (3) of the scanner includes as for all scanners a CCD type of...

...bubble volumic aspect e.g., their tri-dimensionality. The scanner is equipped with a bubble **authenticator** (6) built-in the transparent glass. Said **authenticator**, always **unique** and non-reproducible, is read each time and simultaneously upon reading the original document to be **authenticated**. A lid (2) covers the assembly for realizing the acquisition, any opening while acquiring stops...

...BD2 bases, possibly means for producing certified photocopies, an automatic means for feeding paper and **authentication** seals. This type of device is also usable in two ways: A first way during...

...a second way as means to access BD2 recording system through the seal or its **unique** signature to be able to produce a ...acquisition and archiving in BD2, a simple office scanner is sufficient because the necessity to **verify** the tri-dimensionality of the bubble **authenticator** is not imperative and intervenes only when it is later necessary to prove the integrity...

...and possibly ownership. Upon certification, the reading scanner should therefore at the very least, only **verify** the identity of the bubble seal and its **authorization** of use provided by BD1, knowing that, if the issuer stuck for example on the...

...later use, this operation would go against his interests because, on the one hand, when **authenticating**, the evidence would be made that the document is not original and, on the other...9) accessible through telecommunication network. In (7) are represented rolls of bubble seals adapted for **authenticating** originals (8) (15). A bubble seal (7) is glued on a document (8) to be...that a presented document passes from the status of presumed original to the status of **authenticated** or certified original, the steps are as follows: presumed original document (8) (20) is presented...

...0063] In FIG. 3A, an example of document (8) **authenticated** by seal (7) is represented, and, in FIG. 3B, the same document is represented as it appears recorded in BD2 after acquisition through reading device (1). **Authenticator** (6) of the acquisition device appears in the archived document...

...0064] FIG. 4A represents a **bubble code** constituting a seal, wherein the bubble volumic aspect inside the material is well perceived, hence procuring an **authenticating** characteristic both very easy to interpret and still **unique** physically, while impossible to duplicate identically  
...

...0065] FIG. 4B represents a bubble seal in top view, as it may be **affixed** on an original document...to physical or digital documents to be certified, and a non-rewritable CD or DVD **authenticated** by a bubble seal...

...0068] A non-rewritable DVD (13) is made **unique** using a bubble seal (16) placed in the central ring. Originally, this DVD is assigned...identical to the ones of the seals used for the documents, said DVD is made **unique** and impossible to reproduce identically. It is listed in and assigned to database BD1. In...

#### Description of the Invention:

...identification record or a false birth certificate in order to receive a "real false" identification **card**. The civil servant who delivers the civil certificates, being another than the one delivering the identification **cards**, will consider the document provided as original because it presents all the characteristics to deem...0007] Patent FR2765014 concerns a paper document **authentication** method and its authenticity control device. Said document suggests to confer to the material constituting...

...intrinsic characteristic during its manufacture and to associate it to the document for its later **authentication**. Such random intrinsic characteristic integrated to the material is indeed always **unique**, but it is not non-reproducible to an identical one, it concerns indeed marking the...the naked eye associated to an information, the assembly being recorded in a memory. To **verify** the authenticity, a comparison between what is read on the document and what is stored...

...0009] Document EP0161181 concerns a method and its remote document identification and **authentication** device. In such patent, an identification code (barcode type) as well as a random distribution...

...with ink invisible to the naked eye on the document that one wishes to make **authenticatable** by such method. An optoelectronic reading means

records the identification code, the random distribution, as...

...to the paper medium constituting the document, in a memory after coding the information. To **verify** the authenticity of a document one compares the printed elements and eventually the intrinsic characteristic...

...0010] Patent US 2005/038756 describes an **authentication** method of original documents whose medium constitutes an identifiable medium as in the previous patents...a few hours on the same day. At this level of precision, the need of **authentication** and date/time stamping is of real importance...

...0012] Parallel to physical paper documents, there are solutions for **authenticating** computer data in text or binary file format. Such computer data need to be **authenticated** as original essentially in two distinct applications: either while archiving on a computer system, where ...itself exists whose handwritten signature attests of its content and of its author, subject to **authentication** of both. However, if a dematerialization is desired, the current solution is digital and, therefore...at bringing one or more sure evidences that will have legal and lawful values to **authenticate** documents as originals or true copies of originals, or information as being originals, as much...

...or owner. The method according to the invention concerns both original certification procedure and future **authentication** procedure of elements qualified as originals. The first characteristic of this invention is that it is as well applicable, contrary to everything existing today, to the **authentication** of physical forms (paper) of documents, as to digital data. This invention relies on the...

...of authenticity rests on the physical/logical and logical/physical duality. It is a mixed **authentication** method. The word information here is considered broadly speaking (text or binary file) as the...very high security method including the certification of original paper or digital documents, and the **authentication** of aforesaid originals at the time of their interpretation...used. The first one, BD1, is a trusted third party within which are prerecorded the **authenticating** parts of physical seals, which will be associated with the documents or with the information to be **authenticated**, with possible assignment to a person and/or an institution. The other database, BD2, is...

...seals. As will be seen hereafter, the non-rewritable CD or DVD media are made **unique** through a very high security seal built in the medium in order to be able...

...associated seals read and certified for recording and date/time stamping purposes. For reasons of **unique** assignment of a document to a seal, trusted third party BD1 can reject any seal...

...the reading device connected to BD1 and BD2, then in a first step, the device **authenticates** the physical seal associated to the document by querying BD1, then it queries BD2 asking...

...0023] According to another characteristic, the **authentication** method of original documents operates by comparing the presumed original physical document or a computer...the original information, which content

integrity is certified by the originator, is associated to a **unique** and non-reproducible mark constituting a certification and **authentication** seal previously integrated or reported under the form of a seal: recorded in a database and delivered by an **authorized** authority or trusted third party indicating the affiliation to the originator or to the beneficiary of the document original or of the original information to be certified, said mark being **affixed** directly on the document by the originator of said original document when it is a...

...or on a sheet of blank medium when certifying computer data. This mark constituting an **authenticator** may possibly be an intrinsic chaotic characteristic of the medium itself (i.e. paper fibers...

...0026] b) said original physical document, or similarly the blank medium sheet associated to the **unique** and non-reproducible mark, is digitalized opto-electronically by a device permitting, in a single...

...link the content of the original physical document or the original computer data with said **unique** and non-reproducible mark. The ...0027] c) The original document or the original information, and the associated **unique** and non-reproducible mark is sent, archived, and date/time stamped into the BD2 recording information by drawing a link to the **unique** and non-reproducible seal at the time of sending to the BD2 archiving and recording system. Then it publishes a paper document by gluing the **authentication** seal or mark used for sending. Therefore, even if he wants to modify the document...

...out, and it cannot use another seal that would be identical because each seal is **unique** and impossible to reproduce with regard to its characteristic **authenticating** parts...

...0030] European patent No EP1252616 by the same applicant and same inventors, described a bubble **authentication**, constituting a means of marking documents, very well adapted to the purposes sought-after by this invention. Such type of authenticator containing auto-generated bubbles is not only always **unique** but still impossible to reproduce by natural or artificial means. Man, as a potential forger...

...of direct and indirect action on the object of evidence and on its measure. This **authenticating** with voluminal bubbles, therefore with three dimensions, indeed has remarkable optical properties, which make the...sup]160 upon creation, with a number of bubbles varying from 20 to 40 per **authenticator**. From another point of view, this type of **authenticator** is very well adapted to this type of document **authentication** application because if it is practically always **unique** at the time of creation, it is actually also non-duplicable artificially, because the chaotically...

...level. It is subsequently an optical interpretation that can certify whether it is a natural **bubble code** or a cloning attempt that would be inevitably detected. Such properties are extremely important from...

...0031] first it is realistic to affirm that such type of bubble **authenticator** would never be counterfeited because even if new technological means come up notably in nanotechnologies...to biometric interpretations today, the reading technology development is what is going to make the **bubble code** optical interpretation even safer...



...0032] second, the safety solution that permits to certify and subsequently **authenticate** by bringing unquestionable evidences, is no longer built on exclusively digital foundations which, as everyone...

...a conservation time of secrets, which brings a real problem when pretending to certify and **authenticate** documents or information for which there is no time limit. In this case using a bubble **authenticator**, the safety solution no longer rests on a man-made virtual digital reality but on a physical reality not controlled by man, which is measurable, always **unique** and impossible to falsify even over time, accessible in read-only, and not write, which by the same inventors mentions the use of a bubble **authenticator** to form a seal. In that invention, such type of seal is perfectly appropriate in...

...is not separable from them without losing their integrity. According to one characteristic, the bubble **authenticator** is chemically glued to a medium itself adhering but partially destructible upon pull-out. Such...  
...an identity with an alphanumeric code, barcode, or 2D or RFID label, or even a **unique** signature extracted from the **authenticator** characterizing part. Such signature or identity constitutes the address in the BD2 archiving system0034] The **authenticating** part and the seal identity are pre-recorded in a centralized BD1 database constituting a...

...listed in said BD1 database and indicates its affiliation of the original document to be **authenticated** to its owner or its beneficiary. As an example, a laboratory, an institution, an administration...

...hereafter, the security level lays in the performance of inability to be copied of the **authenticator** used...

...characteristic and in order to have evidence of document traceability, in addition to aforesaid document **authentication**, the reading device is identifiable and **authentifiable** as a unit in order to prove its affiliation and its issuing origin when comparing...

...seal system of the same nature as the one posted on the document to be **authenticated** but ...and recording procedure of the original document for certification, and the second step is an **authentication** procedure of aforesaid document when it is brought as evidence of the original quality...

...tenant assignment and pre-recording of bubble seal linked to the reading device and its **authenticating** characteristics in the BD1 database constituting a trusted third party...

...0040] Pre-recording and user or owner institution assignment of adhesive bubble seals enabling to **authenticate** each original document or original information in the BD1 database constituting ...0041] Apposition by collage of a bubble seal on the original document to be **authenticated**, or on an annexed medium in case digital information...

...seal on the scanner, and launching global reading of the document and of the associated **authenticating** part contained in the seal, and, simultaneously within the same reading, of the bubble seal...

...0043] Querying trusted BD1 database in order to **verify** whether the

bubble seal **affixed** on the paper medium is pre-recorded, not used, and possibly not yet consulted, then...original presumed document and the content transferred. If they match, the document or information is **authenticated** .  
[...]

...0049] According to another characteristic, it becomes possible to track the **authenticated** original document from knowing the device that did the reading or acquisition during its recording...

...In order to achieve that, the bubble seal 2D image retrieved by BD2 during the **verification** step is simply read using the reader, and the trusted third party BD1 database is...

...this invention requires a device to capture or read the original document, and the associated **unique** and irreproducible seal such as a bubble ...a characteristic of this device, it enables to associate in a single capture phase the **authenticating** seal, which characterizing parts are **unique** and irreproducible, with the document content constituting the original information. As the case may be, in this acquisition phase the device permits to prove that the **authenticator** is valid, for a bubble seal it enables to prove that the bubble **authenticating** part is tri-dimensional and that this seal is indeed recorded in BD1. This capture...

...0053] In order to not only **authenticate** but also to track the reading device, the latter is has a built-in **unique** and irreproducible **authenticator** which characterizing parts appear at each document capture by association with the **authenticator** linked to the original document to be captured. This **unique** and irreproducible characterizing part is preferably built-in the device by its manufacturer, and recorded...

...general implementation process, the preferred solution with regard to the choice of the acquisition device **authenticating** element tends to be a bubble **authenticator** itself implemented as a seal that makes it inseparable from the device without risking to...leaving the context of this invention, all other means of scanning can be used for **authenticating** the veracity of the seal's authentic part, and, in this particular case, the volumic...content of the document or information archived in the BD2 system is associated to the **unique** logical signature extracted from the physical **authenticator** , in order to generate a one way hash code notably of all this information, notably...

...both on the original and on the telltale at the time of certification. When an **authentication** is requested, said summaries are compared for assigning or not, according to their similarity, the...computer associated or completely built-in aforesaid acquisition device. In order for the issuer to **authenticate** this information as being original, it is then proceeded as previously by associating the **unique** and irreproducible seal (bubble seal type) prerecorded in BD1, although only capturing the seal, knowing...

...possible to produce a paper version of the document, and to glue on it the **authentication** seal that was used for its transfer and its archiving into BD2. Another preferred way...

...in relation to BD2, namely that associated to DVD (13), in order to generate a **unique** condensed summary to be printed on an annexed sheet of paper, acting also simultaneously as physical medium for the **authentication** bubble seal. So some extremely voluminous computer data can be materialized for strong **authentication** purposes on a simple sheet of paper. This method presents not only a very high...0058]

**Authenticating** the integrity of a document or information with date/time stamping of its constitution is...on the CD or DVD on another medium whatever its nature, the original DVD remains **unique** from the only presence of the bubble seal, and therefore constitutes the only valid telltale...scanner especially adapted for acquiring original documents prior to their recording and to their later **authentication** for evidence

...

...certify original logical information and to certify original physical documents, the assembly can then be **authenticated** regarding the integrity of content, date, and possibly ownership. In summary, this method makes it...to be used in combination with all other data to be certified to generate a **unique** hash code. Thereafter an attempt to tamper with the integrity of one data would require actions on both the physical and logical sides, but also on the **authenticating** part of the bubble seal, which is physically and logically impossible unless the constitution of...electronics where the seal is the certification seal but also the key for computing and **verifying** authenticity...

Exemplary or Independent Claim(s):

1). Method for certification and later **authentication** of original information under the form of text or binary files (15) or of original...

...or information (15) which content integrity is certified by the issuer is associated with a **unique** and non-reproducible **authenticator** constituting a seal (7) previously recorded in a centralized BD1 database (9) of a trusted...

...information to be certified

b) said original document (8) or information (15) associated with said **unique** and non-reproducible **authenticator** (7) is digitalized opto-electronically using a device (1) enabling, in a single operation, to link the content of document (8) or information (15) with said **unique** and non-reproducible **authenticator** (7). Reading device (1) is connected directly or indirectly through a network (18) to a...

...stamped, non-modifiable, and non-rewritable.

c) Original document (8) or information (15) and associated **authenticator** are sent and recorded in the BD2 recording system (10) (13).

d) In order to...

...logical copy (8') archived in the BD2 recording system at the address of the associated **authenticator**, or by comparing condensed summaries product of applied hashing function integrating content, date, and property...1) type of scanner enabling simultaneous recording of an original document (8) and of its **authentication** bubble seal (7) for the purpose of proving subsequently that the assembly is authentic, characterized...

Non-exemplary or Dependent Claim(s):

...claim 1, characterized in that the access to BD2 computer recording system (10) (13) is **authorized** by a biometrical print control done through a sensor (14), said prints being recorded previously...

...3). Method according to claim 1, characterized in that the associated **unique** and non-reproducible **authenticator** is a bubble seal (7)...

...1) is a customized scanner with bubble seal (6) integrated in said scanner enabling its **authentication** and its affiliation simultaneously upon reading original document or information, (8) (15) and of its...and user assignment of bubble seal (6) linked to reading device (1) and of its **authenticating** characteristics in BD1 database (9) constituting a trusted third party;  
Pre-recording and user assignment in BD1 database (9) of adhesive bubble seals (7) permitting to **authenticate** each original document (8) or original information (15);  
Apposing a bubble seal (7) by collage...

...7) on scanner (1) and launching global reading of document (8) and of the associated **authenticating** part contained in seal (7), and simultaneously, in the same reading, of bubble seal (6) linked to scanner (1);  
Querying trusted BD1 database (9) in order to **verify** whether the bubble seal (7) is pre-recorded, not used, and possibly not yet consulted...

...that the logical content of information archived in the BD2 system is associated with the **unique** logical signature extracted from the physical **authenticator** for generating a one way hash code of ...  
that the logical content of information archived in the BD2 system is associated to the **unique** logical signature extracted from the physical **authenticator** related to the originals and to the logical signature extracted from the physical **authenticator** related to the BD2 base in order to generate a one way hash code of...in that computer recording system BD2 is a write-once DVD type of medium (13) **authenticated** by a bubble seal (16) that is physically integrated  
...

**36/3,K/10 (Item 2 from file: 654)**

DIALOG(R)File 654:US PAT.FULL.

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7742332

#### **UTILITY**

#### **Transient shared computer resource and settings change bubble for computer programs**

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US Term Extension: 503 days

Fulltext Word Count: 8923

#### Description of the Invention:

...interface (e.g., dialogs or wizards) to have the user help implement the change, or **confirm** that the change is acceptable. The current state is preserved before the change occurs, such...the exemplary operating environment include, but are not limited to, magnetic tape cassettes, flash memory **cards**, digital versatile disks, digital video tape, solid state RAM, solid state ROM, and the like...the like that obtains information from the user for configuring the new settings and/or **confirming** the change. Alternatively (or in addition to), the user may be asked what settings and...0046] FIG. 4 shows such an alternative implementation having the **bubble code** 404 (comprising parts 404s and 404e) run in the application program's process space 414...

...amount of start code 402s that calls into the operating system 412 to load the **bubble code**, e.g., maintained in the form of a dynamic link library (DLL) 416 or the...

...0047] When the **bubble code** is loaded, represented in FIG. 4 via the arrows labeled four (4) and five (5), the **bubble code** includes start code 404s and end code 404e that essentially surrounds the main application code...in the system setting block 406 (arrow twelve (12)). Arrow thirteen (13) represents the program/ **bubble code** closing; there may be application end code (not shown) to perform the close operations ...0061] As can be appreciated, conflict resolution is **determined** by the bubble 604 maintaining multiple settings, and selectively applying settings based on the various...to use. The notion that these setting(s) are contained in a "bubble" is also **unique** to this invention. Changes can involve wizards or other UI to implement the change, multiple changes can be encompassed in a single bubble, the actual change can be **determined** at application runtime (e.g., based on application heuristics), and no special system support is...

#### Exemplary or Independent Claim(s):

##### Non-exemplary or Dependent Claim(s):

...3. The method of claim 1 wherein creating the bubble comprises loading **bubble code** in a process space that is separate from a process space of the application program...

...method of claim 1 wherein the at least one system setting is changed via the **bubble code** based on a request from the application program and returning the application program to execution...wherein the state data of at least one system setting is inferred automatically by the **bubble code** based on at least one system setting change requested by the application program...

36/3,K/11 (Item 3 from file: 654)

DIALOG(R)File 654:US PAT.FULL.

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7588523

#### UTILITY

**Method and Device for Verification of Non Intrusion Into a System and/or**

**Non-Violation of the Integrity of an Object or the Contents Thereof**

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**Method and Device for Verification of Non Intrusion Into a System and/or**

**Non-Violation of the Integrity of an...**

#### Abstract:

[00000] The invention relates to a method and device for **verification** of non-violation of the integrity of a system or the identity of an object. An **authentication** seal is used, comprising a physical **authenticator** with bubbles (3) produced by a chaotic process on the production thereof, a characteristic of which is to be always **unique** and non-reproducible. A representation of said identifier with bubbles is stored in the form...

...image and/or digitally in a database local or remote to the address (17), for **authentication** of the assignment of the identifier in situ or on the object for protection. Said **authenticator** is provided with a physical connection (16) which permits connection to the site or object for identification. Any attack on the integrity of the seal, whether on the **authenticator** and/or the connection, irreversibly alters the total seal such as to render the same un-reusable. Said **authentication** seal comprises a means for prevention of violation of the integrity of a site or...

#### Description of the Invention:

...the integrity of a site, of an object or of a system, and consequently to **verify** that an attempt to violate or an effective violation in a site or a protected...

...0002] There are a multitude of methods for **verifying** the intrusion or the attempt to intrude into a system or a site for protection by unauthorised persons and to identify and **authenticate** objects ...who does not stop the alarm beforehand using a secret code for example or an

**authorised** biometric print...

...0005] **Cards** (smart, magnetic...an object. These seals may take several forms according to the application. In theory the **verification** of the physical integrity of the seal allows to ensure there has been no violation...object, a complex system or a machine or a person by means of an identity **card**, this support bearing the hallmark of the Authority that issued it and that allows to **authenticate** it. The applications implementing identification plates or supports are numerous and varied, among the most...the first is that they can very easily be identically reproduced with rough means the **authenticating** element or seal included, in fact large quantities of them are commonly available; the second...same way. Thus, one way on another, it is becoming extremely easy for a person **determined** to violate a system and to physically access confidential data, for example in an electronic establishing a union between itself and one or more elements that can be **authenticated** by an Authority that marks the seal with its hallmark (State hallmark for example...

...which the first opening results in the cutting of the lower portion of the closure **attached** to the bottle. This portion constitutes a seal between the closure and the bottle and enables the consumer to **verify** that the bottle has not been opened...0016] likewise, a national identity **card** must constitute a seal between the citizen who owns it and the State that issued...

...0017] a bank **card** must constitute a seal between the customer who owns it, of which he knows the...0018] a health **card** must constitute a seal between the patient who owns it, the health agency that allocated...

...contents of the package or rights unauthorized for the holders of false documents. Indeed, the **authentication** elements of such documents are either complex prints, or holograms, or filigrees or invisible ink...

...who will be able to uncover the secrets shared and thus produce "real fake" identity **cards**, health **cards**, bank **cards** and so on...Patent FR2848698 of the same applicant and inventor, relates to a method of identification and **authentication** of an object or a living being without a specific reader. In this document, it is recommended to **attach** an identifier difficult or impossible to reproduce to the object or the living being for identification or **authentication**. As can be appreciated, this document does not refer to a system of **verification** of non-intrusion into a system or a site for protection or non-violation of...

...analysing it, . . . without this being visible. At worst, it is even possible to remove the **authenticator** from an object without destroying it and to affix it on another object...possible to contain an electronic identification code that can be interrogated remotely. There is nothing **unique** about this type of transponder as it is possible for a person or an organisation...

...the present invention as described hereinafter, the method of non-intrusion is based on a **unique authenticator** that cannot be reproduced identically and that is recorded in a database, consequently, even if...method according to the invention plays a preventive role as it makes it possible to **verify** the non-intrusion into a system or a site

for protection in an unquestionable way...

...0027] According to a first particularly innovative and inventive feature, a **unique** physical **authenticator** that cannot be reproduced identically is used to ensure its non-interchangeability and of which...

...stored in a local or remote database, To ensure the non-reproducibility of the physical **authenticator** a volumic identifier that is the result of a chaotic process impossible to control by be the formation of bubbles upon the hardening of the material constituting said **authenticator** . Thus, contrary to prior devices of the art which are the result of a manufacturing...

...mastered by man and thus reproducible by another person in possession of similar tools, each **authenticator** used in the present invention is **unique** and impossible to reproduce by man as it is the result of a process uncontrolled...

...the latter. This feature makes it possible to permanently eliminate the possibility of anyone obtaining **authenticators** or seals identical to the originals. In this manner, the only remaining means of accessing...

...inside of the system or site for protection is to try to recover said original **authenticator** without destroying it. In order to solve this second problem and according to a complementary feature the **authenticator** is associated by a physical connection with the system or the site for protection or...

...attempt to open the system or the site for protection visibly modifies or destroys the **unique** physical **authenticator** that is original and non-reproducible by making it unusable and/or visibly modifies or destroys the connection associating said physical **authenticator** with the system or with the site for protection or with the object and such that the **verification** of the integrity of the physical **authenticator** and of its correspondence to its representation stored in the database guarantees the fact that...

...place. In practise several solutions exist with regard to the choice of a tamper-proof **authenticator** as well as to the choice of a physical connection to the system for protection0028] According to a further feature, as a **unique** physical **authenticator** that cannot be reproduced identically i.e. that is impossible or extremely difficult to clone...

...image, or digitally designed using remarkable elements, of position, of dimension etc. of the heterogeneities **embedded** in the volume, the two forms of image and digital representation being able to coexist...

...0029] According to another feature and a preferred method, a transparent volumic **authenticator** made of glass ceramic, plastic or polymers containing visible bubbles of which the number, the...

...from chaotic self-generation that cannot be controlled by man is used. Said type of **authenticator** is particularly interesting as it is always **unique** and cannot be cloned by man. Patent PCT FR/01/00322 of the same applicant and the same inventors suggests this type of **authenticator** with bubbles with a suitable reading system. In the case of the present invention it is a question of using this **authenticator** with bubbles in



a particular method of which the purpose or aim is to block or to prohibit access to systems or sites or to **verify** the integrity or the identity with information associated with an original object. In the same ...

...and/or digital form is stored in a database in order to be able to **verify** the integrity of said original **authenticator**. Another type of **authenticator** can be constituted using the physical connection or the object as such by indexing a...  
...same way in a local or remote database or may be printed next to this **authenticating** portion. To all of the cited tamper-proof **authenticators**, others may certainly be added without departing from the scope of the invention. In all instances, it is necessary to store a representation of the characteristic elements of the chosen **authenticator** in a database or to print a signature specific to the **authenticator** locally and according to a chosen algorithm...

...a further feature, the memory and/or the database in which a representation of the **authenticator** is stored, is/are physically located in the system or/and the site for protection ...the support itself but the contents thereof can be read from the outside by an **authorized** person. This representation of the **authenticator** constitutes a key providing access to the physical system and/or logic information...

...0031] According to a further feature the representation of the **authenticator** in image and/or digital form may be consulted via an Internet-type telecommunication network...

...contents stored in image form and/or digitally may be consulted by a controller or **authorised** agent in several ways. A first way consists in visually comparing the representation in the form of an image stored in the local and/or remote database with the physical **authenticator** by analysing the similarity of the bubble or heterogeneity positions. There are several means of of the **authenticator** in the remote database is used, the call directing code may be digital, alphanumeric, a...

...0034] According to another feature the method for **verification** of non-intrusion into a system or a site for protection or for non-violation ...

...the integrity of an object according to the invention is carried out by comparing the **authenticator** automatically, using a suitable reader, with the digital representation thereof stored in a local or...

...0035] According to a further feature of the method according to the invention, the **unique** and non-cloneable and therefore tamper-proof **authenticator** is associated with the system or the site for protection by a physical connection such that any attempt to open visibly modifies or destroys said **authenticator** making it unusable and/or visibly modifies or destroys the connection associating the **authenticator** with the system or with the site for protection...

...According to the invention, this physical connection is an extremely important element as with the **authenticator** becoming unattackable owing to the intrinsic features of non-reproducibility thereof, forgers will try to...

...hence and according to a feature of the method, the physical connection associating the physical **authenticator** with the system or with the site or with the object for protection and for unquestionable identification is a wire integrated in a permanent and irreversible manner into both the **authenticator** and the element for protection...

...0037] According to one feature this physical connection is partially integrated into the **authenticator** with bubbles on the production thereof. According to a preferred and particularly inventive alternative, one of the ends of a metal or non-metal wire is **embedded** in a polymer or transparent material sandwiched between two sheets of which at least one...sandwiched and ultrasonically welded between the two sheets renders the connection irremediably associated with the **authenticator** and with the system for protection. Any intrusion attempt will modify or break either the connection itself, or the **authenticator**, making it possible to provide proof of an effective violation or attempted violation of system...

...ends can be ultrasonically welded. This form of seal may also be suitable to be **affixed** to any object of which the original integrity needs to be maintained...0038] According to a further feature of the method, the physical connection associating the physical **authenticator** with the system or with the site or with the object for protection is a transparent polymer uniting the **authenticator** and the element for protection in a permanent and irreversible manner. By way of example...

...access to the mechanical system on the one hand and/or prohibiting recovery of the **bubble code** on the other hand. The general object of the invention is to protect the integrity...

...0039] Regardless of the implementation thereof, the volumic physical **authenticator** and the physical connection together constitute a very high security **authentication** device or seal intended to prove the non-violation of a system ...principle of defense in depth. Thus, according to a further feature of the invention this **authentication** seal is characterised in that it constitutes a **unique** and non-reproducible volumic physical **authenticator** of which a representation is stored in a database and of a physical connection integrated into said **authenticator** which makes it possible to associate it with the system for protection or for identification...

...on the seal itself intended to prove the identity of an object irreversibly alters said **authentication** seal...

...present innovation provides a suitable solution for incontrovertible proof. In applications such as national identity **cards**, passports, health **cards**, bank **cards**, etc it is necessary on the one hand to prove the authenticity of the document issued by the authority and on the other hand to prove the assignment of this **unique** document to a well identified person and not to another. An **authenticator** with bubbles such as described previously internally laminated in the **card** body on the production thereof makes it possible to render it always **unique** and totally non-reproducible. Such an **authenticator** with bubbles which is a three-dimensional chaos ...This public physical key is integrated into an official document and is indexed in the **embedded** memory or cryptomemory and/or in the issuing organization database. Having become a key accessible only for reading and never for writing, this physical

**authenticator** will fulfill several functions simultaneously, namely...

...0041] it allows both the visual and electronic **authentication** of each physical support guaranteeing and proving the legal and individual existence of each document...

...0042] it allows to **verify** and prove the assignment ...generator of logical keys, it allows to guarantee the integrity of the contents of the **embedded** memory...

...feature, an RFID (radio frequency identification) can be associated with and physically integrated into the **authenticator** with bubbles according to the present invention to form a high security seal. In this case, the only purpose of the RFID would be to identify and **verify** the coherence between a logical signature extracted from the **bubble code** and that stored in the RFID memory. This application proves to be of much interest to secure an entire traceability chain by sampling to **authenticate** certain objects among batches of identical objects. Concretely the RFID antenna or the silicon chip can be partially or wholly **embedded** in the material constituting the **authenticator** with bubbles on the production thereof...shown. One of the ends (6) of a wire (8) is integrated beforehand into the **authenticator** with bubbles (3) on the production thereof. This **authenticator** with bubbles (3) is sandwiched between two sheets (4) and (5) of which at least...

...is visible. If substitution with another seal takes place, the latter will necessarily have another **authenticator** inevitably different as they are all **unique** as has been explained. Thus when checked by an **authorized** person, the latter will be able to **verify** whether or not the **authenticator** corresponds to the image signature or the digital signature stored in the local and/or...

...tank (13) built into the lid (1), this resin constitutes the physical connection between the **authenticator** and the object for protection. A **unique** and non-reproducible volumic identifier of the type with bubbles (3) is incorporated into the transparent resin (12) before the hardening thereof. The **authenticator** (3) will have been subjected to preparation of the surface beforehand permitting very strong adherence...

...order to prohibit any scraping of the resin (12) which would give access to said **authenticator** (3) so as to recover it intact. In these conditions, we appreciate that it is...

...to access the screw (11) which permits the opening of the lid without damaging the **unique authenticator** (3). In order to simulate a non-opening, the forger will try to cast a new resin (12) with a new **authenticator** (3) so as order to give an appearance of non- ...0049] A **unique** and non-clonable **authenticator** (3) sandwiched between a lower reflecting metal plated polyester sheet (5) and an upper much...the assembly is then pressed. Thus the connection wire (8) constituting the connection between the **authenticator** (3) and the elements (1) and (2) of the system for protection is inviolable without...

...intrusion or intrusion attempt is visible as the integrity of the connection or of the **unique authenticator** is violated, or there is nothing apparently visible in which case it is necessary to **verify** whether the physical **authenticator** (3) and its representation in the

local or remote database correspond...necessary with the object for protection according to the invention. In this version the volumic **authenticator** (3), with bubbles for example, is sandwiched between a transparent upper sheet (4) and a...

...5). A wire (8) of a length greater than the seal is integrated inside the **authenticator** (3) on the production thereof. Microcut areas are provided on the lower sheet (5). These...

...the support of which the integrity needs to be protected, the wire (8) is then **embedded** in a transparent resin. Violation of the seal in attempt to recover it integrally without...

...signatures stored in the database in addition to the bubbles or other elements characterizing the **authenticator** ...necessary into the object for protection according to the invention. In this version the volumic **authenticator** (3), with bubbles for example is directly integrated on production into a self-gripping attachment...

...made of reflective stainless steel for example, the assembly is a one-piece unit. An **authenticator** with bubbles (3) is positioned in a tamper-resistant manner by gluing or direct adherence...

...end (16) is subsequently inserted into the (15) non-reverse passage. In these conditions, the **authenticator** (3) and the physical connection permitting connection to the object are inseparable without destruction thereof...

...engraved on the collar, it constitutes the call identifier in the database in order to **verify** that it is indeed the correct **bubble code** and to acknowledge the authentic object to which it is **attached** and information associated therewith...or if necessary into the object for protection or identification. In this version the volumic **authenticator** (3), with bubbles for example is directly integrated upon production into a metal nameplate (5...

...number, the date and the country of production, the name of the manufacturer etc. The **authenticator** (3) is adhered in a non-dismountable manner within a space provided for this purpose...

...only from the inside but at the price of destruction thereof or even of the **authenticator** with bubbles (3) if dismounted. Naturally any other rivet or blind rivet system rendering the...

...alphanumeric, RFID, bar-code, magnetic etc., can be associated to access the database and thus **verify** the authenticity of the seal or of the identification plate in comparison to the object...seal associates an adhesive base (21) referred to as "VOID" or "Temper evident" with an **authenticator** with bubbles (3) integrated in a non-dismountable manner into said base (21). This type...

...7 is shown, applied to the capsule (1) of a bottle (2) so as to **authenticate** not only the container but also to guarantee the integrity of the contents. In this...7 is shown, applied to the closure (1) of a casing (2) so as to **authenticate** not only the container but also to guarantee the integrity of the contents. In this...

...0060] In FIG. 9B, an **authenticator** with bubbles (3) in the form of a label of the type described in FIG...0061] In FIG. 10, an **authenticator** with bubbles (3) comprising a public physical key laminated in a **card body** (23) on the production thereof between two protective sheets (24) forming a sandwich is shown. Such a support integrating a **unique** and non-reproducible **authenticator** constitutes an intrinsically secured unit permitting access either to allocated rights stored in a database...

...person to buildings, the right to withdraw money or to make payments for a bank **card**, proof of identity and citizenship for an identity **card** or a travel right for a passport. In the present case, the **authenticator** (3) may be associated with a memory or a cryptoprocessor. This memory may be magnetic connection associating the physical **authenticator** (3) with the **card body** (23). It is evident that several embodiments exist without departing from the present invention. By way of example, it would be possible to provide a spotfacing in the **card body** (23), to insert the **authenticator** therein and to apply only one protective sheet (24) to the **card body** and to the **authenticator** to physically connect the **authenticator** (3) to the **card body** (23). Thus the **authenticator** (3) may be directly integrated by lamination into a **card body** under one or between two sheets (24) forming a sandwich...

...0063] In FIG. 11, an **authenticator** with bubbles (3) into which an RFID (22) (radio frequency identification) is partially inserted. In...  
...case, by way of a non-limitative example, an image or a logical signature extracted **authenticator** with bubbles (3) is encrypted and stored in the memory of RFID (27) thus permitting, not only identification conferred by the RFID, but very high security **authentication** conferred by the **bubble code** (3) during a check "in situ...

...0064] According to a further feature of the **authentication** method and seal, it is particularly inventive to associate at least two **authenticators** of the codes with bubbles type between themselves by means of at least two seals each of which are **affixed** to at least two physically separable portions of the system or the site or the...

...the same database, the same call number or address in the database then allows to **verify** the association between the one and the other, among others this feature allows to combat...

...0065] According to a further feature of the **authentication** method, at least two **authenticators** of the type with bubbles may be associated on one same seal **affixed** to at least two physical elements, and the same call identifier then allows to **verify** all of the **authenticators** constituting the seal...multitude of industrial, logistic and domestic applications are possible: container or cargo seal with intermediate **verifications** upon customs clearance for example by **verifying** the authenticity of the seal recorded in the database and simultaneously accessing accurate information on the nature and the object of the cargo; measuring or metrology instrument seals **verified** by competent or State organizations; seals of computer-type electronic instruments or tachograph-type data...

...of then hence becoming tamper-proof seals), seals of administrative

documents such as national identity **cards** and passports.

Exemplary or Independent Claim(s):

1) Method of **verification** of non intrusion into a system or a site for protection (1) (2) (25) (26...

...of non-violation of the integrity of an object (20) (23) characterized in that a **unique** and physical **authenticator** that cannot be reproduced identically is used with a volumic **authenticator** which is the result of a chaotic process (3) in order to guarantee its non-interchangeability and of which a representation is stored in a database, and said **authenticator** (3) is associated by a physical connection (8) (12) (14) (18) (21) (22) (24) to...

...the integrity of the object visibly modifies or destroys the physical connection associating said physical **authenticator** with the system or with the site or with the object for protection and that the **verification** of the integrity of the physical **authenticator** and of its correspondence to its representation stored in the database guarantees the fact that...

...15) **Authentication** seal purposed to prove the non-violation of a system or of a site (1...

...or of the identity of an object (20) (23) characterised in that it constitutes a **unique** and non-reproducible physical volumic **authenticator** (3) of which a representation is stored in a database and of a physical connection (8) (12) (14) (18) (21) (22) (24) integrated into said **authenticator** which makes it possible to associate it with the system for protection (1) (2) (25)...

...on the seal itself intended to prove the identity of an object irreversibly alters said **authentication** seal...

...24) **Authentication** method purposed to prove the non-violation of a system or of a site (1...

...and/or the identity of an object (20) (23) characterised in that at least two **authenticators** of the type with bubbles are associated by means of at least two seals each of which are **affixed** to at least two physically separable portions of the system or the site or the object, and that same call or address identifier in the database then allows to **verify** the association between the one and the other in the database...

...25) **Authentication** method purposed to prove the non-violation of a system or of a site (1...

...and/or the identity of an object (20) (23) characterised in that at least two **authenticators** of the type with bubbles are associated on one same seal **affixed** to at least two physical elements, and that same call identifier then allows to **verify** all of the **authenticators** constituting the seal.

Non-exemplary or Dependent Claim(s):

2) Method of **verification** of non intrusion into a system or a site for protection (1) (2) (25) (26...

...integrity of an object (20) (23) according to claim 1, characterized in that the physical **authenticator** that cannot be reproduced identically (3) is a transparent volumic **authenticator** with random internal heterogeneities of which a representation may be encoded...

...3) Method of **verification** of non intrusion into a system or a site for protection (1) (2) (25) (26...

...of an object (20) (23) according to claim 1, characterized in that the transparent volumic **authenticator** (3) contains visible bubbles of which the number, the shape and the arrangement are the...

...4) Method of **verification** of non intrusion into a system or a site for protection (1) (2) (25) (26...

...20) (23) according to claim 1, characterised in that the physical connection associating the physical **authenticator** (3) with the system or with the site or to the object for protection is a wire (8) integrated in a permanent and irreversible manner into both the **authenticator** (3) ...5) Method of **verification** of non intrusion into a system or a site for protection (1) (2) (25) (26...

...20) (23) according to claim 1, characterised in that the physical connection associating the physical **authenticator** (3) with the system or with the site (1) (2) (25) (26) or with the object (20) (23) for protection is a transparent polymer (12) joining the **authenticator** (3) and the element for protection in a permanent and irreversible manner...

...6) Method of **verification** of non intrusion into a system or a site for protection (1) (2) (25) (26...

...20) (23) according to claim 1, characterised in that the physical connection associating the physical **authenticator** (3) with the system or with the site (1) (2) (25) (26) or with the object (20) (23) for protection is an RFID partially or wholly inserted into the **authenticator** (37) Method of **verification** of non intrusion into a system or a site for protection (1) (2) (25) (26...

...20) (23) according to claim 1, characterised in that the physical connection associating the physical **authenticator** (3) with the system or with the site (1) (2) (25) (26) or with the...

...8) Method of **verification** of non intrusion into a system or a site for protection (1) (2) (25) (26...

...20) (23) according to claim 1, characterised in that the physical connection associating the physical **authenticator** (3) with the system or with the site (1) (2) (25) (26) or with the...

...9) Method of **verification** of non intrusion into a system or a site for protection (1) (2) (25) (26...10) Method of **verification** of non intrusion into a system or a site for protection (1) (2) (25) (26...

...23) according to claim 1, characterised in that an image or the signature of the **authenticator** (3) is stored in the memory of the RFID (27) inserted into said **authenticator** .

...

...11) Method of **verification** of non intrusion into a system or a site for protection (1) (2) (25) (26...

...claim 1, characterized in that an image and/or digital representation of the transparent volumic **authenticator** (3) is stored in a remote memory or database that may be consulted via a 12) Method of **verification** of non intrusion into a system or a site for protection (1) (2) (25) (26...

...the integrity of an object (20) (23) according to claim 9 characterised in that the **verification** of the integrity of the physical **authenticator** is made by visual comparison of the transparent volumic **authenticator** (3) with the image thereof stored either in a local database or in a remote...

...13) Method of **verification** of non intrusion into a system or a site for protection (1) (2) (25) (26...

...the integrity of an object (20) (23) according to claim 9 characterised in that the **verification** of the integrity of the **authenticator** (3) is made by automatic comparison, using a suitable reader, with its digital representation stored...

...14) Method of **verification** of non intrusion into a system or a site for protection (1) (2) (25) (26 an identifier (17) is associated with the **authenticator** corresponding to the address thereof in the database...

...16) **Authentication** seal purposed to prove the non-violation of a system or of a site (1...

...the identity of an object (20) (23) according to claim 15 characterised in that the **unique** and non-reproducible physical volumic **authenticator** is a volumic **authenticator** with bubbles (3)...

...17) **Authentication** seal purposed to prove the non-violation of a system or of a site (1...

...the identity of an object (20) (23) according to claim 15 characterised in that the **unique** and non-reproducible physical volumic **authenticator** is a volumic **authenticator** with bubbles (3) of which the volume integrates a wire (8) constituting the physical connection ...

...18) **Authentication** seal purposed to ...the identity of an object (20) (23) according to claim 15 characterised in that the **unique** and non-reproducible physical volumic **authenticator** is a volumic **authenticator** with bubbles (3) of which the volume integrates a wire (8) that is sandwiched between...

...the lower sheet (5) features microcuts (14), the assembly constituting the physical connection between said **authenticator** and the system or the object for protection and/or for identification...

...19) **Authentication** seal purposed to prove the non-violation of a system or of a site (1...



...of an object (20) (23) according to claim 15 characterised in that in that the **unique** and non-reproducible physical volumic **authenticator** is a volumic **authenticator** with bubbles (3) directly integrated into an irreversible single-unit cinch-up tie (19)...

...20) **Authentication** seal purposed to prove the non-violation of a system or of a site (1...

...of an object (20) (23) according to claim 15 characterised in that in that the **unique** and non-reproducible physical volumic **authenticator** is a volumic **authenticator** with bubbles (3) directly integrated into a nameplate (20) itself irreversibly fixed to the object...

...21) **Authentication** seal purposed to prove the non-violation of a system or of a site (1...

...of an object (20) (23) according to claim 15 characterised in that in that the **unique** and non-reproducible physical volumic **authenticator** is a volumic **authenticator** with bubbles (3) directly integrated by laminating into a **card** body under one or two sheets (24) forming a sandwich...

...22) **Authentication** seal purposed to prove the non-violation of a system or of a site (1...

...of an object (20) (23) according to claim 15 characterised in that in that the **unique** and non-reproducible physical volumic **authenticator** is a volumic identifier with bubbles (3) directly integrated into an adhesive label (21) comprising23) **Authentication** seal purposed to prove the non intrusion into a system or a site (1) (2...

...23) according to claim 15, characterised in that a destructible adhesive label (21) comprising an **authenticator** with bubbles permits the connection via an opening between a primary package (25) and a...

### 36/3,K/12 (Item 4 from file: 654)

DIALOG(R)File 654:US PAT.FULL.

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6692893

### UTILITY

### Transient shared computer resource and settings change bubble for computer programs

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Publication Number	Application Kind	Filing Date	Number	Date
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Fulltext Word Count: 8977

Summary of the Invention:

...interface (e.g., dialogs or wizards) to have the user help implement the change, or **confirm** that the change is acceptable. The current state is preserved before the change occurs, such...

Description of the Invention:

...the exemplary operating environment include, but are not limited to, magnetic tape cassettes, flash memory **cards**, digital versatile disks, digital video tape, solid state RAM, solid state ROM, and the like...the like that obtains information from the user for configuring the new settings and/or **confirming** the change. Alternatively (or in addition to), the user may be asked what settings and...0046] FIG. 4 shows such an alternative implementation having the **bubble code** 404 (comprising parts 404s and 404e) run in the application program's process space 414 ...

...amount of start code 402s that calls into the operating system 412 to load the **bubble code**, e.g., maintained in the form of a dynamic link library (DLL) 416 or the...

...0047] When the **bubble code** is loaded, represented in FIG. 4 via the arrows labeled four (4) and five (5), the **bubble code** includes start code 404s and end code 404e that essentially surrounds the main application ...in the system setting block 406 (arrow twelve (12)). Arrow thirteen (13) represents the program/ **bubble code** closing; there may be application end code (not shown) to perform the close operations ...0061] As can be appreciated, conflict resolution is **determined** by the bubble 604 maintaining multiple settings, and selectively applying settings based on the ...to use. The notion that these setting(s) are contained in a "bubble" is also **unique** to this invention. Changes can involve wizards or other UI to implement the change, multiple changes can be encompassed in a single bubble, the actual change can be **determined** at application runtime (e.g., based on application heuristics), and no special system support is...

Exemplary or Independent Claim(s):

Non-exemplary or Dependent Claim(s):

...3. The method of claim 1 wherein creating the bubble comprises loading **bubble code** in a process space that is separate from a process space of the application program...

...settings to be changed comprises changing the current system resources and/or settings via the **bubble code** based on a request from the application program and returning the application program to execution...of claim 1 wherein the system resources and/or settings to be preserved by the **bubble code** are specified by the application program requesting changes...

...of claim 1 wherein the system resources and/or settings to be preserved by the **bubble code** are inferred automatically by the **bubble**

**code** based on at least one system resource and/or setting change requested by the application...

**36/3,K/13 (Item 5 from file: 654)**

DIALOG(R)File 654:US PAT.FULL.

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6054265

Derwent Accession: 2005-265740

**UTILITY**

**Method to make transactions secure by means of cards having unique and non-reproducible identifiers**

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	Publication Number	Kind	Application Date	Filing Number	Date
Main Patent	US 20050075984	A1	20050407	US 2003712659	20031113
Priority			FR 200311527	20031002	

Fulltext Word Count: 3219

**Method to make transactions secure by means of cards having unique and non-reproducible identifiers**

**Abstract:**

[00000] A method for making transactions secure based upon a **card** -type medium (2) comprising a number (4) and a remote database (5) connected to a telecommunications network. A **unique** and non-reproducible identifier (3) in the form of a **bubble code** is physically **affixed** to the **card** (2) comprising a number (4) contained either on a magnetic strip, of a bar code...

...call is made to the remote database by means of the number recorded on the **card** , a link **authentication** is performed by comparing the representation of the identifier stored in said database and the...

**Summary of the Invention:**

...relates to a method making transactions secure by means of bank, loyalty, subscription, or access **authorization cards** among others, which comprise a magnetic strip, a bar code or an electronic chip as...

...0002] The magnetic strip or tape used as a data-recording medium on a **card** permitting access to various payment, subscription, and database access services, among others, is an extremely...

...At the banking level in France, this solution was abandoned and replaced by the chip **card** or smart **card** . However, the aforementioned solution is very widespread in all other countries worldwide. Charge-type payment ...

...with the use of magnetic strips. In fact, none of the data stored on a **card** can be kept secret or made inaccessible. Thus, it becomes possible to create fake **cards** or to insert false information. In numerous cases, the magnetic strip **card** is equipped with a PIN code, which permits the level of security to be increased since only the **card**'s owner knows the code; however, experienced swindlers could decipher it even though it would...

...0003] The purpose of this invention is to provide a method permitting the **card**-based transactions to be made secure at a relatively modest cost that is acceptable to all users. To this end, it utilizes a **card**-type medium comprising a number and a database linked to a telecommunications network...

...0004] The invention is characterized in that an always **unique** and non-reproducible identifier is physically integrated in the medium comprising the number, in that...

...that the stored information comprises at least one image and/or numeric signature of the **unique** and non-reproducible identifier, in that the link **authentication** is effected by means of a comparison between a representation of the identifier stored in...

...the medium, and in that if there is agreement between the two, the transaction is **authorized**.

[...]

...limiting examples, this other data could be information pertaining to the cardholder or the object **authenticated** by this system. In a preferential manner, it may be advantageous to store biometric information about the holder to whom the **card** was given, such as his/her photograph and/or digital fingerprint and/or DNA and...

...a method enabling generation of a non-forgable link between the number contained on the **card**-type medium and information stored under the same number in a secure and remote database. Only the **authentication** of this unforgable link can **authorize** the transaction. The number on the **card**-type medium may be recorded in various ways. As non-limiting examples, the number may

Description of the Invention:

...0009] FIG. 3 represents an embodiment of a **unique** and unforgable identifier...

...forgable link in accordance with this invention uses a physical identifier. This identifier is physically **affixed** to the unit bearing the number, for example the familiar, standard format, plastic **card**. Another characteristic of this procedure is brought about by the fact that the identifier is always **unique** and non-reproducible and therefore it constitutes an unforgable link between the number recorded on the **card**-type medium and the same number contained in the database. To this end, the claim...

...has conducted extensive research and according to another especially innovative and inventive characteristic, whereby the **authentication**

procedure of the unforgeable link may be visual...

...suitable to create an unforgeable link. Said bubble identifier, whose identical reproduction is impossible, is **affixed** on the **card**-type medium comprising the number. An image of the identifier, in which the bubbles and...

...recording means. When the operator calls the database thanks to the number recorded on the **card**, for example on the magnetic strip, it appears on the monitor or printed directly on...

...database. All one has to do is visually compare the actual and non-reproducible identifier **affixed** to the **card**-type medium to the image received. The operator can then **authenticate** the link and declare the transaction as valid. Thus, this visual link **authentication** solution may be implemented very quickly by means of existing infrastructures and therefore without additional investments. Only the **card**-type media comprising the bubble volume-based identifier incur additional identifier-related costs. In this case, for the **authentication** to be complete, the operator must ensure that the identifier is three-dimensional...

...0012] According to another characteristic, the non-falsifiable link **authentication** procedure may be automatic. In this case, the **card** comprising the number and the **unique** and non-reproducible identifier has the number and the identifier read by means of a...

...s) adapted for reading. The part of the reader integrating the read mode of the **unique** and non-reproducible identifier can analyze and decide on the identifier's characteristic elements, thereby...

...practical manner, when the operator calls up the database for the number recorded on the **card**, the integrated reader simultaneously captures the identifier; the identifier's image or its representation is...

...is performed and compared to that stored in said database. If there is agreement, link **authentication** exists and the transaction is **authorized**. In this case, the three-dimensional image of the identifier may be **verified** by subjecting it to different lighting...

...is comprised of self-generated bubbles, it is preferable to record the number on the **card**-type medium in the form of a two-dimensional data matrix-type code. Thus, the...

...preferentially arrange the identifier and the two-dimensional code in a preferential manner on the **card**, in such a way as to allow reading them both in the same operation...

...0015] In order to **authenticate** an identifier, we can access the database with a mobile phone. In that case, the...

...image of the identifier is sent back onto the phone display. The operator can then **authenticate** by checking the match between the picture signature on the display and the identifier. In...

...principle. A medium (2) that may be an ISO-format magnetic strip plastic or paper **card** comprises an identifier (3), whose characteristic

elements are always **unique** and unforgeable, is physically **affixed** to it. The magnetic strip comprises an encoded number (4). A representation in the form...

...modes. In the visual mode, an operator (13) inserts into a magnetic reader (8) a **card** (2) provided with a magnetic strip (1) and a bubble identifier (3) whose characteristic feature is that it is always **unique** and non reproducible. After reading of the number (4) recorded on the magnetic strip (1...

...of the printer (10). If there is visual agreement, this means that the link's **authentication** is established and the operator (13) may validate the transaction...

...0019] In the automatic mode, a **card** (2), bearing a magnetic strip (1) and a bubble identifier (3) characterized by always being **unique** and non reproducible, is inserted into a device comprising a magnetic reader (8) and a...

...finishes reading the number (4) contained on the magnetic strip and reading the volume-based **authentication** of the bubble identifier (3), the image is captured and sent via (9) toward the...

...they are identical, a message (14) appears on the terminal (10) signifying that the link **authentication** is established and that the transaction is validated...

...reading the number in the magnetic strip. In particular, this **PIN** code allows one to **verify** that the cardholder is indeed its owner...

...Conversely, the comparison may also be made at the database-level. In the same manner, **verification** of the identifier's three-dimensional image may be performed either by the scanner or...

...0022] FIG. 3 represents a **unique** a non reproducible identifier in which bubbles having shapes and holding random positions are self...

Exemplary or Independent Claim(s):

1. Method for making transactions secure based on a **card** -type medium (2) comprising a number (4) and a remote database (5) connected to a telecommunications network (9), characterized in that a **unique** and non-reproducible identifier (3) is physically integrated in the medium (2) comprising the number...

...of the identifier comprising an image (6) and/or a digital signature (7) of the **unique** and non-reproducible identifier (3), the link **authentication** is performed by means of a comparison between a representation of the identifier (6 or...

...identifier (3) located on the medium (2), and if there is agreement, the transaction is **authorized** .

Non-exemplary or Dependent Claim(s):

2. Method for making transactions secure based on a **card** -type medium (2) comprising a number (4) and a remote database (5) connected to a ...

...3. Method for making transactions secure based on a **card** -type medium (2) comprising a number (4) and a remote database (5) connected to a ...

...4. Method for making transactions secure based on a **card** -type medium (2) comprising a number (4) and a remote database (5) connected to a ...

...5. Method for making transactions secure based on a **card** -type medium (2) comprising a number (4) and a remote database (5) connected to a telecommunications network (9) according to claim 1, characterized in that the **unique** and non-reproducible identifier (3) constituting the unforgeable link between the number (4) recorded on...

...6. Method for making transactions secure based on a **card** -type medium (2) comprising a number (4) and a remote database (5) connected to a telecommunications network (9) according to claim 1, characterized in that the **authentication** of the unforgeable link **authorizing** the transaction is performed in a visual manner by an operator (13)...

...terminal monitor (11) or printed on the receipt of the printer (10), with the real, **unique** , and non-reproducible identifier (3) integrated in the medium (2) comprising the number...

...8. Method for making transactions secure based on a **card** -type medium (2) comprising a number (4) and a remote database (5) connected to a telecommunications network (9) according to claim 1, characterized in that the **authentication** of the unforgeable link **authorizing** the transaction is performed automatically. When the operators (13) place a call (9) to the...

...is performed and compared to that (7) stored in said database. If there is agreement, **authentication** of the link exists and the transaction is **authorized** .

**36/3,K/14 (Item 6 from file: 654)**

DIALOG(R)File 654:US PAT.FULL.

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5659442 \*\*IMAGE Available

Derwent Accession: 2002-061475

**Utility**

**REASSIGNED**

**Method of optical mark recognition**

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Publication Number	Kind	Application Date	Filing Number	Date
Main Patent	US 6741738	A	20040525	US 2001776439 20010202

**Abstract:**

...a quantitative measure of the similarity between the blank and user forms is used to **determine** whether or not the user has made a mark on the form within that response...

**Summary of the Invention:**

...marks is then later "read" or scored via some sort of computer-assisted process which **determines** which responses the user has designated and tabulates those responses for later reporting. Of course ...

...for the scan to be in color or gray scale, as the object is to **determine** whether or not a mark is present and a two-level scan is adequate for...

...Even if the active regions on the form have been accurately **determined** , the process of "reading" the mark is not as simple as it might seem. Bubbles...

...a first aspect of the instant invention, there is provided a method of reading or **determining** the mark sense of a user-marked form, which begins by storing in computer memory...

...Using the brightness of the corresponding portions of the two images, a transformation is mathematically **determined** that is designed to smoothly correct for observed differences in overall image intensity. The intensity...

...degree of similarity between the unmarked bubble (from the reference image) and the potentially marked **bubble** . **Based** on this objectively calculated value, a **determination** is made as to whether or not the form as been marked. Additionally, depending on...

**Description of the Drawings:**

...FIG. 6 illustrates the preferred method of quantitatively comparing two images in order to **determine** their degree of similarity...

**Description of the Invention:**

...Now, to **determine** the affine transform that best aligns the marked image with the control, a least median...

...extends from the midpoint of centroids 1330 and 1340. In this example, it has been **determined** that the centroid 1330 needs to be moved so that it is centered about the...

...this feature with its counterpart on the other form. The remaining centroids 1350 have been **determined** to be correctly aligned...

... **Determining** the Offset Distances...

...As a first step and is as illustrated in FIGS. 8B and 6, a relatively **unique** region of the scanned blank form 20 (a "reference" bitmap 620) is pre-selected for...been processed (step 1135) the method preferably continues by comparing the calculated similarity values to **determine**



which comparison image was most similar to the reference image. Given that value and the...

...none of the calculated similarities may be very meaningful. However, since the goal is to **determine** where marks have been placed on the form, even a very rough alignment will be...

...blank form 10 is selected (step 925), the coordinates of each bubble having been previously **determined** on the blank form (the "unmarked bubble" bitmap, hereinafter). Of course, as is illustrated in...

...values in the output image 550. So, an additional step will generally be necessary to **determine** whether or not a mark is present...

...as a final step, the calculated output image from the previous step is used to **determine** whether or not the particular under scrutiny bubble on the target image has been filled...

...FIG. 10, the foregoing can readily be used for purposes of OMR or in the **determination** of mark sense. In more particular, it is anticipated that the previous method would be...

...applied to every bubble of interest on a test form (steps 1025 through 1050) to **determine** how the respondent has marked the form that is being analyzed. At the conclusion, i...

...Any one of these measures standing alone would theoretically be enough to **determine** whether or not a user has marked within a particular bubble. However in the preferred embodiment, multiple measurements of this sort will be used to make that **determination**. Further, in some cases it might prove to be advantageous to combine the previous measures ...

...Although the preferred embodiment has been described in the sense of **determining** whether or not particular "bubbles" have been filled in on a form, the range of...

...research, medical records (many hundreds of possible specific applications), census data, immigration (entrance and exit **cards**), conference registrations/surveys, assessments (outside of K-12 education, including law school admissions, AICPA (CPA)...

...described and illustrated herein by reference to certain preferred embodiments in relation to the drawings **attached** hereto, various changes and further modifications, apart from those shown or suggested herein, may be...

...departing from the spirit of the inventive concept, the scope of which is to be **determined** by the following claims.

Exemplary or Independent Claim(s):

...f) **determining** from said reference pixels and said target pixels an offset between said reference region and...

...k) **determining** from said digital target document, said digital reference document, and from any adjustment rules so...

Non-exemplary or Dependent Claim(s):

...the group consisting of computer RAM, computer ROM, a PROM chip, flash RAM, a ROM **card**, a RAM **card**, a floppy disk, a magnetic disk, a magnetic tape, a magneto-optical disk, an optical...

...f4) **determining** from any numerical distances so calculated an offset between said reference pixels and said target...

...i) calculating a minimum value of any numerical distances so **determined**, said minimum value being associated with a particular trial offset  
...

...i) **determining** from any numerical distances so calculated an offset between said reference pixels and said target...

...k) calculating an image adjustment rule from any offsets so **determined**; and...

...l) **determining** from said digital target document, said digital reference document, and from any adjustment rules so...

...the group consisting of computer RAM, computer ROM, a PROM chip, flash RAM, a ROM **card**, a RAM **card**, a floppy disk, a magnetic disk, a magnetic tape, a magneto-optical disk, an optical...

...g) **determining** from said plurality of difference pixels a similarity value...

...i) **determining** from said plurality of similarity values whether said selected target bubble is a user-marked...

...27. A method according to claim 24, wherein step (i) includes the step of **determining** from said plurality of similarity values whether said selected target is a user-marked target...

...the group consisting of computer RAM, computer ROM, a PROM chip, flash RAM, a ROM **card**, a RAM **card**, a floppy disk, a magnetic disk, a magnetic tape, a magneto-optical disk, an optical...

...i2) **determining** from said average value whether said selected target bubble is a user-marked target bubble...

...i2) **determining** from said maximum value whether said selected target bubble is a user-marked target bubble...

...e) **determining** an intensity level of said digital target region...

...f) **determining** an intensity level of said digital reference region...

...the group consisting of computer RAM, computer ROM, a PROM chip, flash RAM, a ROM **card**, a RAM **card**, a floppy disk, a magnetic disk, a magnetic tape, a magneto-optical disk, an optical...

...f) **determining** from said reference pixels and said target pixels an offset between said reference region and...

...document from any adjustment rules so calculated, thereby producing an

aligned document for use in **determining** at least where on said user-marked document a user has marked.

**36/3,K/15 (Item 7 from file: 654)**

DIALOG(R)File 654:US PAT.FULL.

(c) Format only 2009 Dialog. All rts. reserv.

0005647441 \*\*IMAGE Available

Derwent Accession: 1999-572331

**Bubble-protected system for automatic decryption of file data on a per-use basis and automatic re-encryption**

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Assignee: Symantec Corporation(02)

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	Publication			Application			Filing	
	Number	Kind	Date	Number			Number	Date
Main Patent	US 20040093506			A1	20040513		US 2003638940	20030811
Continuation	ABANDONED						US 9847316	19980324

Fulltext Word Count: 36240

Summary of the Invention:

...remotely via a communications network (e.g., LAN or WAN) so that a remotely located, **authorized** persons can quickly access the data when needed...

...OTF) decryption and re-encryption system which conveniently decrypts and re-encrypts file data for **authorized** users on an as-needed basis...

...is possible, however, that security may be inadvertently breached by the unwitting actions of an **authorized** user. The **authorized** user may have properly logged into the system and provided all the appropriate passwords which...

...example, suppose that after properly logging into the system and providing all appropriate passwords, the **authorized** user decides to connect via the Internet with a Web site or a like source...

Description of the Invention:

...other basic re-bootings of the system. The ROM data may specify an OS-readable, **unique** serial number for the computer. The computer system 100 may also include a real-time...

...various kinds of encrypted and plaintext data. Part of that data represents a list of **authorized** users (INCLUDED USER's LIST) as will be detailed below. Another part of that data...

...0064] As further seen in FIG. 1, disk subsystem 150 stores: (a) a **bubble - based** algorithm 154 for providing access approval or denial to

access requests presented via various kinds...

...yet further stores: (j) one or more **bubble-lists** 168 that are used by the **bubble - based** algorithm 154 for providing access approval or denial to access requests presented via various kinds...

...an encrypted form (ciphertext form) except for times when it is being legitimately used by **authorized** users. At such times, the decrypted data 175 should be kept only in volatile memory...is employed, the executing program or OS component of intercept step 201 is tested for **bubble - based** approval or denial by the program approving/denying algorithm 154. One such algorithm is shown...

...is made of the Excluded Directories List(s) of memory region 155 (FIG. 1) to **determine** whether the requested file is 'contained' in a directory that is identified as an excluded...

...0111] At test step 220, it is **determined** if a decrypted version (real or phantom) 161d of the file data has already been...

...apparently-available? test 220 is Yes, control passes to test step 222 where it is **determined** if the current file-OPEN request issued at the behest of an OTF decryption module...

...security label further includes a list that defines a valid user identification number for each **authorized** user. The OS or another interacting software module is expected to furnish a matching user...

...security label is formed by encrypting the plaintext of the needed decryption key using the **authorized** user's public key pursuant to a so-called public-key/private-key encryption system...

...such a public-key/private-key encryption system.) Accordingly, the private key of the same **authorized** user must be obtained in order to decrypt the encrypted key string corresponding to that...

...the current file requester (obtained from the OS) can be compared against the list of **authorized** users within the file's security label to see if there is a match. Also...

...or additionally, other security tests can be performed in step 226 as deemed appropriate to **determine** whether the requesting user and/or the requesting application program have valid access rights...

...0133] If the result at the access-rights **verification** step 226 is negative (No), then control is passed to point B3 where the intercept...

...0134] If the result at the access-rights **verification** step 226 is instead positive (Yes), then control passes to a decrypting process such as...

...and a decrypted version 161d of the requested file data is made available to the **authorized** requestor. If volume-encryption is being used as an additional protection, the OTF software is...

...subsystem directory 151 and overwriting the original file name (e.g., 'AA.XLS') with a **unique** new file name (e.g., 'JAN[sub]-1[sub]-98.001...

...0140] In one embodiment, the **unique** new file name is selected as follows. The current time and/or current date is used to generate a **unique** alpha-numeric string (e.g., 'JAN[sub]-1[sub]-98.001') conforming to the file...

...test and revise procedure is repeated until there is no collision. Then the non-colliding **unique** alpha-numeric string (e.g., 'JAN[sub]-1[sub]-98.002') is used as the...

...of security methods including the above-mentioned method of encrypting the decryption key with the **authorized** user's public encryption key...

...or to a hash of such data. A corresponding public key is afterwards used to **authenticate** the signature by comparing the decrypted signature (the version decrypted with the public key) against the stored data or a hash thereof. In one embodiment, the last **authorized** user to edit the file is defined as the master of the file 161 and his/her private/public key pair is used respectively to sign and **authenticate** the plaintext. In an alternate embodiment, the private/public key pair of the system administrator is used respectively to sign and **authenticate** the plaintext. The private/public key pair of another entity may yet alternatively be used to respectively to sign and **authenticate** the plaintext...

...causing programs. The MS-Windows95(TM) protocol wherein asterisks (\*) are used for multi-character wild **cards** {including no characters} and question marks (?) are used as single-character wild **cards** may be used. The example at 320b ('\*GEN\*.XLS') accordingly identifies the class of file...

...and the master program under whose supervision the slave was loaded. Section 311c (MASTER/SLAVE) **determines** which of these proximity-of-causation designations is to be queried for from the OS...

...matches per the MASTER/SLAVE qualification of section 311c, then section 311d is consulted to **determine** if the response to the name and type-of-causation matches should be an approval...a file-copying primitive-function such as 'COPY.DLL'. In other words, it has been **determined** that 'C:\\*COPY\*.DLL' has no business trying to access a file whose name satisfies...

...DENY and the alert level is that of the current default. This means that no **authorizing** match has been found in the causation-query branch of target-query record 320 and...

...step 450 continues along path 451 to test step 455. In step 455 it is **determined** whether the file-name extension (e.g., the last character string following the last period...

...in step 421, the process continues on to step 422. In step 422, it is **determined** by reading the APPROVE/DENY section (e.g., 311d) of the matched box, what the...

...Temporal and/or geographic approval/denial follows a similar scheme. OTF reryption with plaintext signature **authentication** is an optional additional level of protection...

...If slow path 511 is followed, a test is carried out in step 502 to **determine** if the read primitive is directed to an area of the volume (e.g., of...

...If slow path 561 is followed, a test is carried out in step 552 to **determine** if the write primitive is directed to an area of the volume that is excluded...

...intercept of such an file-OPEN request, THREAD-1 proceeds to step 712 where it **determines** whether decryption is necessary for the to-be-opened file. If decryption is deemed necessary...

Exemplary or Independent Claim(s):

...interceptable file-OPEN requests; (b) selective OPEN continuance means, responsive to the intercept means, for **determining** whether an intercepted file-OPEN request is requesting an open of a file for which...

...identity of a requesting program, (b.1) said selective OPEN continuance means being further for **determining**, if the access request is not denied on the basis of said identity of the...

...to the operating system; (c) plaintext tracking means, responsive to the selective continuance means, for **determining** whether a plaintext version of the sometimes encrypted data of the requested file already exists...

...and (d) a decrypting mechanism, responsive to the plaintext tracking means such that on a **determination** that a plaintext version of the sometimes encrypted data of the requested file does not...

...kept encrypted most of the time; said method comprising at least the step of: (a) **determining** whether an intercepted file-OPEN request is requesting an open of a file for which...

...requesting program; said method further comprising one or more of the following steps if said **determining** step does not generate an access denial decision: (b) using file-exclusion lists to block...

...caused by one or more causation-sourcing events for access to targeted data having a **unique** identity; (b) first testing the identity of the targeted data for satisfaction of a predefined...

...one predefined target classifying condition covers plural ones of said targeted data that have corresponding, **unique** identities; (c) second testing at least one of the identity of the one or more...

...or more causation-sourcing events for access to data of a targeted file having a **unique** identity; (b) first testing the identity of the targeted file for satisfaction of a predefined...

...bubble-controller includes an identity classifier for classifying each intercepted access-opening request to thereby **determine** whether the identified file for which the opening of an access linkage is being requested belongs to a bubble-protected class and if so, to **determine** whether one or more requesting programs that caused the

intercepted access-opening request to be...

...the bubble-controller includes a timeliness tester for testing each intercepted access-opening request to **determine** whether the identified file for which the opening of an access linkage is being requested belongs to a bubble-protected class and if so, to **determine** whether a time, at which the intercepted access-opening request is received, is pre-associated...

...the bubble-controller includes a geography tester for testing each intercepted access-opening request to **determine** whether the identified file for which the opening of an access linkage is being requested belongs to a bubble-protected class and if so, to **determine** whether a geographic location or machine from which the intercepted access-opening request is received...

...the plural files can be uniquely identified; (b) testing each intercepted access-opening request to **determine** whether the identified file for which the opening of an access linkage is being requested belongs to a bubble-protected class and if so, to **determine** whether one or more requesting programs that caused the intercepted access-opening request to be...

...the plural files can be uniquely identified; (b) testing each intercepted access-opening request to **determine** whether the identified file for which the opening of an access linkage is being requested belongs to a bubble-protected class and if so, to **determine** whether one or more requesting programs that caused the intercepted access-opening request to be...

...one of plural digital data files, where each of said files is identifiable by a **unique** file pathname; (b) system memory into which immediately executable code can be stored; (c) an...

...open requests; (c) for each intercepted file-open request, querying the decision-controlling object to **determine** if the to-be-opened file is a member of one of said defined classes...

...linked to respective ones of said definitions of the blockable classes of programs; (e) automatically **determining**, before file-reading or file-writing capability is provided to a given, executing program that...

...to the defined one protectable class of data files; and (f) in response to said **determining**, selectively denying the given request of the given, executing program to open the given data...

...bubble-control access code that is logically associated with the predefined class of records to **determine** whether the access request, as made by a member of the predefined requestors class, should...

#### Non-exemplary or Dependent Claim(s):

...conveying apparatus of claim 33 wherein (b.1) said predefined target classifying condition includes wild **card** designations for classifying the identity of the plural ones of said targeted data...

...conveying apparatus of claim 33 wherein (c.1) said predefined causation classifying condition includes wild **card** designations for classifying the identity of a tested causation event...

**36/3,K/16 (Item 8 from file: 654)**

DIALOG(R)File 654:US PAT.FULL.

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0004933762 \*\*IMAGE Available

Derwent Accession: 1999-572331

**BUBBLE-PROTECTED SYSTEM FOR AUTOMATIC DECRYPTION OF FILE DATA ON A PER-USE BASIS AND AUTOMATIC RE-ENCRYPTION**

Inventor: DAVID GRAWROCK, INV

Assignee: Symantec Corporation(02)

Correspondence Address: MARTIN C FLIESLER FLIESLER DUBB MEYER & LOVEJOY,  
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Publication Number	Kind	Application Date	Filing Number	Date
Main Patent	US 20010044901	A1	20011122	US 9847316 19980324

Fulltext Word Count: 25330

Summary of the Invention:

...on Month Day, 1998 [future issuance number and date to-be **determined** ].  
[...]

...remotely via a communications network (e.g., LAN or WAN) so that a remotely located, **authorized** persons can quickly access the data when needed...

...OTF) decryption and re-encryption system which conveniently decrypts and re-encrypts file data for **authorized** users on an as needed basis...

...is possible, however, that security may be inadvertently breached by the unwitting actions of an **authorized** user. The **authorized** user may have properly logged into the system and provided all the appropriate passwords which...

...example, suppose that after properly logging into the system and providing all appropriate passwords, the **authorized** user decides to connect via the Internet with a Web site or a like source

Description of the Invention:

...other basic re-bootings of the system. The ROM data may specify an OS-readable, **unique** serial number for the computer. The computer system 100 may also include a real-time...  
...various kinds of encrypted and plaintext data. Part of that data represents a list of **authorized** users (INCLUDED USER's LIST) as will be detailed below. Another part of that data...

...0064] As further seen in FIG. 1, disk subsystem 150 stores: (a) a



**bubble - based** algorithm 154 for providing access approval or denial to access requests presented via various kinds...

...yet further stores; (j) one or more **bubble-lists** 162 that are used by the **bubble - based** algorithm 154 for providing access approval or denial to access requests presented via various kinds...

...an encrypted form (ciphertext form) except for times when it is being legitimately used by **authorized** users. At such times, the decrypted data 175 should be kept only in volatile memory...

...is employed, the executing program or OS component of intercept step 201 is tested for **bubble - based** approval or denial by the program approving/denying algorithm 154. One such algorithm is shown...is made of the Excluded Directories List(s) of memory region 155 (FIG. 1) to **determine** whether the requested file is 'contained' in a directory that is identified as an excluded...

...0111] At test step 220, it is **determined** if a decrypted version (real or phantom) 161d of the file data has already been...

...apparently-available? test 220 is Yes, control passes to test step 222 where it is **determined** if the current file-OPEN request issued at the behest of an OTF decryption module...

...security label further includes a list that defines a valid user identification number for each **authorized** user. The OS or another interacting software module is expected to furnish a matching user...

...security label is formed by encrypting the plaintext of the needed decryption key using the **authorized** user's public key pursuant to a so-called public-key/private-key encryption system...

...such a public-key/private-key encryption system.) Accordingly, the private key of the same **authorized** user must be obtained in order to decrypt the encrypted key string corresponding to that...

...the current file requester (obtained from the OS) can be compared against the list of **authorized** users within the file's security label to see if there is a match. Also...

...or additionally, other security tests can be performed in step 226 as deemed appropriate to **determine** whether the requesting user and/or the requesting application program have valid access rights...

...0131] If the result at the access-rights **verification** step 226 is negative (No), then control is passed to point B3 where the intercept...

...0132] If the result at the access-rights **verification** step 226 is instead positive (Yes), then control passes to a decrypting process such as...

...and a decrypted version 161d of the requested file data is made available to the **authorized** requester. If volume-encryption is being used as an additional protection, the OTF software is...

...subsystem directory 151 and overwriting the original file name (e.g., 'AA.XLS') with a **unique** new file name (e.g., 'JAN...

...0137] In one embodiment, the **unique** new file name is selected as follows. The current time and/or current date is used to generate a **unique** alpha-numeric string (e.g., 'JAN...

...test and revise procedure is repeated until there is no collision. Then the non-colliding **unique** alpha-numeric string (e.g., 'JAN...

...of security methods including the above-mentioned method of encrypting the decryption key with the **authorized** user's public encryption key...

...or to a hash of such data. A corresponding public key is afterwards used to **authenticate** the signature by comparing the decrypted signature (the version decrypted with the public key) against the stored data or a hash thereof. In one embodiment, the last **authorized** user to edit the file is defined as the master of the file 161 and his/her private/public key pair is used respectively to sign and **authenticate** the plaintext. In an alternate embodiment, the private/public key pair of the system administrator is used respectively to sign and **authenticate** the plaintext. The private/public key pair of another entity may yet alternatively be used to respectively to sign and **authenticate** the plaintext...

...causing programs. The MS-Windows95(TM) protocol wherein asterisks (\*) are used for multi-character wild **cards** {including no characters} and question marks (?) are used as single-character wild **cards** may be used. The example at 320b ('\*GEN\*.XLS') accordingly identifies the class of file...

...and the master program under whose supervision the slave was loaded. Section 311c (MASTER/SLAVE) **determines** which of these proximity-of causation designations is to be queried for from the OS...

...matches per the MASTER/SLAVE qualification of section 311c, then section 311d is consulted to **determine** if the response to the name and type-of-causation matches should be an approval...a file-copying primitive-function such as 'COPY.DLL'. In other words, it has been **determined** that 'C:\\*COPY\*.DLL' has no business trying to access a file whose name satisfies...

...DENY and the alert level is that of the current default. This means that no **authorizing** match has been found in the causation-query branch of target-query record 320 and...

...step 450 continues along path 451 to test step 455. In step 455 it is **determined** whether the file-name extension (e.g., the last character string following the last period...

...in step 421, the process continues on to step 422. In step 422, it is **determined** by reading the APPROVE/DENY section (e.g., 311d) of the matched box, what the...

...Temporal and/or geographic approval/denial follows a similar scheme. OTF recryption with plaintext signature **authentication** is an optional additional level of protection...

...If slow path 511 is followed, a test is carried out in step 502 to

**determine** if the read primitive is directed to an area of the volume (e.g., of...

...If slow path 561 is followed, a test is carried out in step 552 to **determine** if the write primitive is directed to an area of the volume that is excluded...

...intercept of such an file-OPEN request, THREAD-1 proceeds to step 712 where it **determines** whether decryption is necessary for the to-be-opened file. If decryption is deemed necessary...

Exemplary or Independent Claim(s):

...interceptable file-OPEN requests; (b) selective OPEN continuance means, responsive to the intercept means, for **determining** whether an intercepted file-OPEN request is requesting an open of a file for which...

...identity of a requesting program, (b.1) said selective OPEN continuance means being further for **determining**, if the access request is not denied on the basis of said identity of the...

...to the operating system; (c) plaintext tracking means, responsive to the selective continuance means, for **determining** whether a plaintext version of the sometimes encrypted data of the requested file already exists...

...and (d) a decrypting mechanism, responsive to the plaintext tracking means such that on a **determination** that a plaintext version of the sometimes encrypted data of the requested file does not...

...kept encrypted most of the time; said method comprising at least the step of: (a) **determining** whether an intercepted file-OPEN request is requesting an open of a file for which...

...requesting program; said method further comprising one or more of the following steps if said **determining** step does not generate an access denial decision: (b) using file-exclusion lists to block...

...request caused by one or more causation-events for access to targeted data having a **unique** identity; (b) first testing the identity of the targeted data for satisfaction of a predefined...

Non-exemplary or Dependent Claim(s):

...conveying apparatus of claim 33 wherein (b.1) said predefined target-query condition includes wild **card** designations for specifying the identity of a satisfying target...

...conveying apparatus of claim 33 wherein (c.1) said predefined causation-query condition includes wild **card** designations for specifying the identity of a satisfying causation event...

**36/3,K/17 (Item 9 from file: 654)**

DIALOG(R)File 654:US PAT.FULL.

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0004922701 \*\*IMAGE Available  
Derwent Accession: 2002-061475

**Method of optical mark recognition**

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	Publication Number	Kind	Date	Application Number	Filing Date
Main Patent	US 20010033688	A1	20011025	US 2001776439	20010202
Provisional			US 60-188781	20000313	

Fulltext Word Count: 14956

**Abstract:**

...a quantitative measure of the similarity between the blank and user forms is used to **determine** whether or not the user has made a mark on the form within that response...

**Summary of the Invention:**

...marks is then later "read" or scored via some sort of computer-assisted process which **determines** which responses the user has designated and tabulates those responses for later reporting. Of course ...

...for the scan to be in color or gray scale, as the object is to **determine** whether or not a mark is present and a two-level scan is adequate for...

...0008] Even if the active regions on the form have been accurately **determined**, the process of "reading" the mark is not as simple as it might seem. Bubbles...

...a first aspect of the instant invention, there is provided a method of reading or **determining** the mark sense of a user-marked form, which begins by storing in computer memory...

...Using the brightness of the corresponding portions of the two images, a transformation is mathematically **determined** that is designed to smoothly correct for observed differences in overall image intensity. The intensity...

...degree of similarity between the unmarked bubble (from the reference image) and the potentially marked **bubble**. **Based** on this objectively calculated value, a **determination** is made as to whether or not the form as been marked. Additionally, depending on...

**Description of the Drawings:**

...0028] FIG. 6 illustrates the preferred method of quantitatively comparing two images in order to **determine** their degree of similarity ...

**Description of the Invention:**

...0042] Now, to **determine** the affine transform that best aligns the

marked image with the control, a least median...

...extends from the midpoint of centroids 1330 and 1340. In this example, it has been **determined** that the centroid 1330 needs to be moved so that it is centered about the...

...this feature with its counterpart on the other form. The remaining centroids 1350 have been **determined** to be correctly aligned...

... **Determining** the Offset Distances...

...As a first step and is as illustrated in FIGS. 8B and 6, a relatively **unique** region of the scanned blank form 20 (a "reference" bitmap 620) is pre-selected for...

...been processed (step 1135) the method preferably continues by comparing the calculated similarity values to **determine** which comparison image was ...none of the calculated similarities may be very meaningful. However, since the goal is to **determine** where marks have been placed on the form, even a very rough alignment will be...

...blank form 10 is selected (step 925), the coordinates of each bubble having been previously **determined** on the blank form (the "unmarked bubble" bitmap, hereinafter). Of course, as is illustrated in...

...values in the output image 550. So, an additional step will generally be necessary to **determine** whether or not a mark is present...

...as a final step, the calculated output image from the previous step is used to **determine** whether or not the particular under scrutiny bubble on the target image has been filled...

...FIG. 10, the foregoing can readily be used for purposes of OMR or in the **determination** of mark sense. In more particular, it is anticipated that the previous method would be...

...applied to every bubble of interest on a test form (steps 1025 through 1050) to **determine** how the respondent has marked the form that is being analyzed. At the conclusion, i...

...0085] Any one of these measures standing alone would theoretically be enough to **determine** whether or not a user has marked within a particular bubble. However in the preferred embodiment, multiple measurements of this sort will be used to make that **determination**. Further, in some cases it might prove to be advantageous to combine the previous measures...

...0086] Although the preferred embodiment has been described in the sense of **determining** whether or not particular "bubbles" have been filled in on a form, the range of...

...research, medical records (many hundreds of possible specific applications), census data, immigration (entrance and exit **cards**), conference registrations/surveys, assessments (outside of K-12 education, including law school admissions, AICPA (CPA)...

...described and illustrated herein by reference to certain preferred embodiments in relation to the drawings **attached** hereto, various changes and further modifications, apart from those shown or suggested herein, may be...

...departing from the spirit of the inventive concept, the scope of which is to be **determined** by the following claims...

Exemplary or Independent Claim(s):

...said digital reference document, and, (e2) having a plurality of target pixels contained therein; (f) **determining** from said reference pixels and said target pixels an offset between said reference region and...

...c) through (i) at least twice using at least two different digital resolutions; and, (k) **determining** from said digital target document, said digital reference document, and from any adjustment rules so...

...f) and (g) a plurality of times, using at least two different trial offsets; (i) **determining** from any numerical distances so calculated an offset between said reference pixels and said target...

...through (i) at least once, (k) calculating an image adjustment rule from any offsets so **determined** ; and, (l) **determining** from said digital target document, said digital reference document, and from any adjustment rules so...

...and each of said selected target pixels, thereby producing a plurality of difference pixels; (g) **determining** from said plurality of difference pixels a similarity value; (h) performing steps (d) through (g)...

...least two different selected reference pixels, thereby producing a plurality of similarity values; and, (i) **determining** from said plurality of similarity values whether said selected target bubble is a user-marked...

...thereby obtaining a digital reference region, said digital reference region containing reference pixels therein; (e) **determining** an intensity level of said digital target region; (f) **determining** an intensity level of said digital reference region; (g) calculating an intensity differential between said...

...said digital reference document, and, (e2) having a plurality of target pixels contained therein; (f) **determining** from said reference pixels and said target pixels an offset between said reference region and...

...document from any adjustment rules so calculated, thereby producing an aligned document for use in **determining** at least where on said user-marked document a user has marked.

Non-exemplary or Dependent Claim(s):

...the group consisting of computer RAM, computer ROM, a PROM chip, flash

RAM, a ROM **card** , a RAM **card** , a floppy disk, a magnetic disk, a magnetic tape, a magneto-optical disk, an optical...

...using said trial offset, (f) performing steps (f1) and (f2) a plurality of times, (f4) **determining** from any numerical distances so calculated an offset between said reference pixels and said target...

...f4) includes the step of: (i) calculating a minimum value of any numerical distances so **determined** , said minimum value being associated with a particular trial offset, (ii) selecting said particular trial...

...the group consisting of computer RAM, computer ROM, a PROM chip, flash RAM, a ROM **card** , a RAM **card** , a floppy disk, a magnetic disk, a magnetic tape, a magneto-optical disk, an optical...

...27. A method according to claim 24, wherein step (i) includes the step of **determining** from said plurality of similarity values whether said selected target is a user-marked target...

...the group consisting of computer RAM, computer ROM, a PROM chip, flash RAM, a ROM **card** , a RAM **card** , a floppy disk, a magnetic disk, a magnetic tape, a magneto-optical disk, an optical...

...steps of: (i1) calculating an average value of said plurality of similarity values, and, (i2) **determining** from said average value whether said selected target bubble is a user-marked target bubble...

...steps of: (i1) calculating a maximum value of said plurality of similarity values, and, (i2) **determining** from said maximum value whether said selected target bubble is a user-marked target bubble...

...the group consisting of computer RAM, computer ROM, a PROM chip, flash RAM, a ROM **card** , a RAM **card** , a floppy disk, a magnetic disk, a magnetic tape, a magneto-optical disk, an optical...

**36/3,K/18 (Item 10 from file: 654)**

DIALOG(R)File 654:US PAT.FULL.

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4322934 \*\*IMAGE Available

Derwent Accession: 1991-117665

LitAlert Accession: P2003-38-45 \*\*See File 670 for Litigation

**Utility**

**REASSIGNED**

**E/ Multiple software-facility component operating system for co-operative processor control within a multiprocessor computer system**

Inventor: Hitz, David, Sunnyvale, CA

Schwartz, Allan, Saratoga, CA

Lau, James, Cupertino, CA

Harris, Guy, Mountain View, CA

Assignee: Auspex Systems, Inc.(02), Santa Clara, CA

Auspex Systems Inc

Examiner: Topl, Lucien U. (Art Unit: 275)

Law Firm: Fliesler Dubb Meyer & Lovejoy

	Publication Number	Kind	Date	Application Number	Filing Date
Main Patent	US 6065037	A	20000516	US 95473244	19950607
Division	US 5485579	A		US 94225356	19940408
Continuation	Abandoned			US 92875585	19920428
Continuation	Abandoned			US 89404885	19890908

Fulltext Word Count: 22830

#### Summary of the Invention:

...file server be capable of executing the same or a similar operating system as the **attached** client workstations. The reasons include the need to execute maintenance and monitoring programs on the...

...consideration is the need to avoid the cost of supporting an operating system that is **unique** to the file server...

#### Description of the Invention:

...2, two mass storage processors 16[sub]1-2, a bank of four system memory **cards** 18[sub]1-4, and a host processor 20 coupled to the backplane bus 22 preferred embodiments of the present invention, is a Sun central processor **card**, model Sun 3E120, manufactured and distributed by Sun Microsystems, Inc...

...Finally, the system memory **cards** 18 each provide 48 megabytes of 32-bit memory for shared use within the computer...

...UFS interacts with a low level software device driver that is directly responsible for an **attached** physical mass storage device. The UFS handles all operations necessary to resolve logical file oriented...

...FIG. 5 provides a simplified block diagram of the preferred architecture of a memory **card** 18. Each memory **card** 18 operates as a slave on the enhanced VME bus and therefore requires no on...

...ECC) generation and testing unit 158 is coupled to the multiplexer 154 to generate or **verify**, again depending on transfer direction, eight bits of ECC data per memory array word. The status of each ECC **verification** operation is provided back to the timing control block 150 ...

...PID). Context execution switches by the peer-level processor are controlled by a process scheduler **embedded** in the facility's multi-tasking kernel. A process may be "active"--at a minimum...

...The NC facility similarly provides a **unique** facility ID and the PID of its relevant process to another peer-level facility as...

...system facility 164 except during the initial phase of bootup. Rather, both generally appear as **unique** but otherwise undifferentiated logical clients of the storage facility 166...message identified by a message descriptor is evaluated by the receiving messaging kernel layer to **determine** what is to be done with the message. A message descriptor as



used by a...

...bytes. The initial 32-bit word of the message encodes the message type and a **unique** peer-level facility identifier. The text of the message then follows with any necessary fill...

...The **determination** to send a message, and the nature of the message, is **determined** by the peer-level facilities. In particular, when a process executing on a peer-level...

...of a desired function may be achieved by calling an appropriate routine, that, in turn, **determines** and calls its own service routines. This is illustrated in FIG. 9. A function call...

...network communications facility, a process is allocated to allow the call to operate in a **unique** context. Thus, the call to or by a stub routine is identifiable by the process...

...handled by the logical call format bubbles A1-X. A message buffer is allocated and **attached** to a message queue. Depending on the particular stub routine called, the contents of the...

...Received messages are initially examined to **determine** their message type. This step is illustrated by the B message parser **bubble**. Based on message type, a corresponding data structure is selected by which the message can be... **determines** whether a given type of file access is legal for specified credentials ("cred") on the...

...facility for configuring the NFS server stack and to respond in support of a secure **authentication** service request. The network communications facility will exchange messages with the file system facility for...

...will in turn issue the necessary FS communication transactions to obtain file service. If secure **authentication** option is used, the NFS server will issue requests to the **Authentication** server daemon running on the host processor. The conventional **authentication** services include: mapping (ks[sub]-- getcred()) a given <network name> to Unix style ...

...sub]-- route" and "nc[sub]-- del[sub]-- route" IOCTL commands. Once a route has been **determined** for a particular packet, the packet is dispatched to the appropriate network interface. If a...

...ip[sub]-- pkt() communication transaction. If a packet is destined to a conventional network interface **attached** to the host facility, it is forwarded to the host facility using the "nc[sub]...

...as opposed to the name of a service, of the facility that is registering, its **unique** facility ID (VME slot ID) and the shared memory address of its message descriptor FIFO...is issued by a facility to the timed daemon to **determine** the system time and to request periodic time synchronization messages. The reply message returns the...

...of VME memory where data transfer takes place. The S facility uses this byte to **determine** the VMEbus protocols to be used for data transfer. Memory[sub]-- type is defined as...

...message. Therefore, when a reply is received, a message sender checks the status word to **determine** how a message is completed. When k[sub]-- null[sub]-- reply is used, the original...

...Total[sub]-- sector is the disk capacity of the **attached** SCSI disks.  
Total capacity of a disk bank is this number multiplying the number[sub]  
...

...This message is used to address directly any SCSI disk or peripheral **attached** to a SCSI port. Multiple messages can be sent at the same time. They are...

...Scsi[sub]-- id, scsi[sub]-- port, and scsi[sub]-- lun[sub]-- address identify uniquely one **attached** SCSI peripheral device. Command[sub]-- length and data[sub]-- length specify the lengths of command...

...This message is used to **verify** if a previous message was received by the S facility. If not, the message is...

...message is sent when there is no active messages. Otherwise, it is very difficult to **determine** how many used messages are in the S facility message buffer. For example if there...

...S facility. The host boot program can then poll this sender[sub]-- pid word to **determine** when the message is completed. Messages to the S facility are sent in this manner...

Exemplary or Independent Claim(s):

Non-exemplary or Dependent Claim(s):

...facilities implements a multi-tasking interface coupleable between said communications bus and a respective and **unique** peer-level control function set to permit message transfer between each of said plurality of...

**36/3,K/19 (Item 11 from file: 654)**

DIALOG(R)File 654:US PAT.FULL.

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3783367 \*\*IMAGE Available

Derwent Accession: 1996-505493

**Utility**

**REASSIGNED**

E/ **Integrated dosimeter for simultaneous passive and active dosimetry**

Inventor: Tawil, Riad A., Kirtland, OH

Hsu, Sam S., Farmingham, MA

Assignee: Saint-Gobain/Norton Industrial Ceramics Corp.(02), Worcester, MA

Saint-Gobain/Norton Industrial Ceramics Corp (Code: 32666)

Examiner: Hannaher, Constantine (Art Unit: 256)

Assistant Examiner: Tyler, Virgil Orlando

Combined Principal Attorneys: Ulbrich, Volker R.; Bulson, Don W.

Publication Number	Kind	Application Date	Filing Number	Date
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Fulltext Word Count: 6102

Abstract:

...provided for extracting the radiation exposure information from the detectors, as is a processor which **determines** a quantity of radiation exposure from the radiation information extracted from the detectors. The processor...

Summary of the Invention:

...active, or real time, dosimetry. Passive dosimeters have included, for example, TLD-based dosimeter elements, **bubble - based** dosimeter elements, polycarbonate-based dosimeter elements, photographic film-based dosimeter elements, indium-based dosimeter elements...

...one radiation sensitive element selected from the group consisting of a TLD-based dosimeter element, **bubble - based** dosimeter element, polycarbonate-based dosimeter element, photographic film-based dosimeter element, indium-based dosimeter element...

...TL element within the housing. The housing may include a case and a holder removably **attached** to the case, the case containing the electronic radiation sensitive element, and the holder containing...

...the other detector. For example, data obtained from the passive detector may be used to **determine** radiation energies and mixed field composition, which information may then be used to correct the...

...provided for extracting the radiation exposure information from the detectors, as is a processor which **determines** a quantity of radiation exposure from the radiation information extracted from the detectors. The processor...

Description of the Drawings:

...FIG. 5 is a plan view of a TLD **card** .

Description of the Invention:

...FIGS. 2-6, the passive detector 22 of the illustrated embodiment includes a conventional TLD **card** 38 and a novel form of holder 40 which is adapted for attachment to the...

...The base 42 includes a rectangular shape pocket 62 sized to accommodate the TLD **card** 38 (FIG. 5). One corner of the pocket is beveled to form a key 64 for proper orienting of the **card** in the pocket; the **card** can only fit one way in the pocket. The pocket may be circumscribed by an...

...includes a window and/or various filters for respective radiation sensitive elements of the TLD **card** 38. As shown in FIG. 5, the TLD **card** 38 consists of four LiF:Mg,Ti thermoluminescence (TL) elements 77-80 of different thicknesses...

...Teflon (PTFE) sheets on an aluminum substrate. Each TL element is covered by its own **unique** filter which provides different radiation absorption thicknesses to allow dose estimation for various organs in...

...The TL elements 77-80 are located in positions designated 1-4, respectively. The TLD **card** is identified by a label with an ID Number appearing in both numeric and barcode formats. One corner of the **card** is notched at 82 to insure proper insertion into the holder and correct orientation when being read in a **card** reader...

...The illustrated TLD **card** and filtration corresponds to that of a conventional 8825 Dosimeter (the details of which are...

...or other polycarbonate material. The CR39 strip 90 may be conveniently sandwiched between the TLD **card** and the case 26 of the active detector when the holder is slipped over the...

...a common case. If the passive detector component of the dosimeter assembly employs a TLD **card** such as that above described, then preferably the case has a removable cover (preferably tamperproof) for permitting removal of the TLD **card** (and/or any other passive detector element) for reading the TLD **card** (and/or any other passive detector element)...

...off the case 26 of the active detector 24 to permit removal of the TLD **card** 38 and CR39 strip 90. After reading of the TLD **card** and the CR39 strip in their respective readers in known manner, the dosimeter may be ...

...a processor (or processors) which interrelate the radiation exposure information read from the detectors and **determines** a quantity of radiation exposure from the radiation information acquired from the detectors, such as...

...of the type and severity of the measured radiation on the human body, may be **determined** from the response of the detectors through application of appropriate correction algorithms. For example, a...

...of the active detector. For example, radiation energies and field mixtures can be more accurately **determined** from the radiation exposure information acquired from the passive detector. With this information, an appropriate...

...the information reported is accurate. The doses reported by the detectors may be compared to **determine** if a problem exists...

...The Model 6600 reader is capable of automatically reading both whole body and environmental TLD **cards**. A Model 6600E reader gives the additional capability of reading extremity dosimeters. The software which ...

...single, fully integrated workstation. Each workstation can process up to 200 whole body or environmental **cards** (or 400 extremity dosimeters in the Model 6600E) without operator attention, while performing a number...

...and automatic control of the instrument, providing powerful data handling capabilities, including reader and field **card** calibration and automatic application of element correction coefficients to field **card** readings; automatic TTP selection; data storage, selection and summarization; computerized glow curve deconvolution; and data...

...are continuously updated and displayed on a results screen at all times: type of reading, **card** ID, active TTP number and name, date and time of last **card** read, current date and time, read cycle phase, air temperature for both channels, high voltage...

...the reader is calibrated, such as rem. This simple conversion, however, often is inadequate for **determining** the effect of the measured radiation on the human body, especially considering the effects of...

...filters, as described above, the relative TL response of the materials can be evaluated to **determine** the type as well as the severity of the radiation, and thus estimate its effect...

...enabling supervisory access to entry and exit data, personnel records, and RWP (radiation work permit) **authorization** information...

...b. **Verification** data including: dosimeter serial number, calibration date, dose expected, dose measured, percent error, passing criteria...

...The Dositec Software controls access through RWP (radiation work permit) **authorization** lists and exposure limits, maintained personnel exposure data and maintained dosimeter calibration data, all controlled...

Exemplary or Independent Claim(s):

Non-exemplary or Dependent Claim(s):

...one radiation sensitive element selected from the group consisting of a TLD-based dosimeter element, **bubble - based** dosimeter element, polycarbonate-based dosimeter element, photographic film-based dosimeter element, indium-based dosimeter element...

...set forth in claim 4, wherein said housing includes a case and a holder removably **attached** to said case, said case containing said electronic radiation sensitive element, and said holder containing...

...respective readers for extracting the radiation exposure information from said detectors; and a processor which **determines** a quantity of radiation exposure from the radiation information extracted from the detectors, said processor...

**36/3,K/20 (Item 12 from file: 654)**

DIALOG(R)File 654:US PAT.FULL.

(c) Format only 2009 Dialog. All rts. reserv.

3688146 \*\*IMAGE Available  
Derwent Accession: 1991-117665

**Utility**

**REASSIGNED**

E/ **Multiple facility operating system architecture**

Inventor: Hitz, David, Sunnyvale, CA

Schwartz, Allan, Saratoga, CA

Lau, James, Cupertino, CA

Harris, Guy, Mountain View, CA

Assignee: Auspex Systems, Inc.(02), Santa Clara, CA

Auspex Systems Inc

Examiner: Kulik, Paul V. (Art Unit: 237)  
 Law Firm: Fliesler, Dubb, Meyer & Lovejoy

	Publication Number	Kind	Date	Application Number	Filing Date
Main Patent	US 5485579	A	19960116	US 94225356	19940408
Continuation	Abandoned			US 92875585	19920428
Continuation	Abandoned			US 89404885	19890908

Fulltext Word Count: 24005

#### Description of the Invention:

...examined to determine their message type. This step is illustrated by the B message parser **hubble**. **Based** on message ...**determines** whether a given type of file access is legal for specified credentials ("cred") on the...

...facility for configuring the NFS server stack and to respond in support of a secure **authentication** service request. The network communications facility will exchange messages with the file system facility for...

...will in turn issue the necessary FS communication transactions to obtain file service. If secure **authentication** option is used, the NFS server will issue requests to the **Authentication** server daemon running on the host processor. The conventional **authentication** services include: mapping (ks[sub]-- getcred()) a given <network name> to Unix style ...

...[sub]-- route" and "nc[sub]-- del[sub]-- route" IOCTL commands. Once a route has been **determined** for a particular packet, the packet is dispatched to the appropriate network interface. If a...

...ip[sub]-- pkt()) communication transaction. If a packet is destined to a conventional network interface **attached** to the host facility, it is forwarded to the host facility using the "nc[sub]--

...as opposed to the name of a service, of the facility that is registering, its **unique** facility ID (VME slot ID) and the shared memory address of its message descriptor FIFO...

...is issued by a facility to the timed daemon to **determine** the system time and to request periodic time synchronization messages. The reply message returns the...

...of VME memory where data transfer takes place. The S facility uses this byte to **determine** the VMEbus protocols to be used for data transfer. Memory[sub]-- type is defined as...

...message. Therefore, when a reply is received, a message sender checks the status word to **determine** how a message is completed. When k[sub]-- null[sub]-- reply is used, the original...

...Total[sub]-- sector is the disk capacity of the **attached** SCSI disks. Total capacity of a disk bank is this number multiplying the number[sub]-- ...

...This message is used to address directly any SCSI disk or peripheral **attached** to a SCSI port. Multiple messages can be sent at the same time. They are...

...Scsi[sub]-- id, scsi[sub]-- port, and scsi[sub]-- lun[sub]-- address identify uniquely one **attached** SCSI peripheral device. Command[sub]-- length and data[sub]-- length specify the lengths of command...

...This message is used to **verify** if a previous message was received by the S facility. If not, the message is...

...message is sent when there is no active messages. Otherwise, it is very difficult to **determine** how many used messages are in the S facility message buffer. For example if there...

...S facility. The host boot program can then poll this sender[sub]-- pid word to **determine** when the message is completed. Messages to the S facility are sent in this manner

?

**41/3,K/1 (Item 1 from file: 654)**

DIALOG(R)File 654:US PAT.FULL.

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7615030

#### UTILITY

#### SERVICE FOR ENABLING USERS TO SHARE INFORMATION REGARDING PRODUCTS REPRESENTED ON WEB PAGES

Inventor: Kahle, Brewster P., San Francisco, CA, US

O'Driscoll, Niall P., San Francisco, CA, US

Tanenbaum, Ronna C., San Francisco, CA, US

Bartolotta, Jeffrey M., San Francisco, CA, US

Cholach, Sondra L., San Francisco, CA, US

Van Der Merwe Sauer, Paul, San Francisco, CA, US

Assignee: Unassigned

Correspondence Address: KNOBBE MARTENS OLSON & BEAR LLP, 2040 MAIN STREET, FOURTEENTH FLOOR, IRVINE, CA, 92614, US

	Publication Number	Kind	Date	Application Number	Filing Date
Main Patent	US 20080162231	A1	20080703	US 200848044	20080313
Division	US 7373313	A		US 2001820207	20010328
Provisional			US 60-199569	20000425	

Fulltext Word Count: 13011

#### Description of the Invention:

...the web page. Preferably, the client program 124 or the data server 140 checks to **verify** the entered name is actually present on the web page. The bubble 310 includes a...FIG. 5, the client toolbar web page 608 preferably includes Document Object Model (DOM) manipulation **code** 522 in the form of Javascript. The DOM manipulation **code** 522 is executed to add the web page **embedded** product elements 220 (FIG. 2A) adjacent product representations on the displayed web page 602 by manipulating the web browser's DOM. The DOM manipulation **code** 522 can also be used to make other ...0080] The toolbar **code** 524 is also preferably configured

to create bubbles such as the bubble 310 of FIG...

...is viewed by the user. The client bubble web page 532 may also contain client **bubble code** 534. ...identification is preferably included in the client toolbar web page 608 in the form of **embedded code**, which is preferably Javascript. The **embedded code**, which preferably includes the DOM manipulation **code** 522 and the toolbar **code** 524, will be described in greater detail in conjunction with subsequent steps. If the data...scenario, the client program displays the product-identifying display elements, such as the web page **embedded** product elements 220 of FIG. 2A, adjacent representations of the associated products on the displayed...

...the displayed web page. In this scenario, the client program preferably executes the DOM manipulation **code** 522 **embedded** in the client toolbar web page 608 to add the display elements to the web...

#### 41/3,K/2 (Item 2 from file: 654)

DIALOG(R)File 654:US PAT.FULL.

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7536965

#### UTILITY

#### Service for enabling users to share information regarding products represented on web pages

Inventor: Kahle, Brewster P., San Francisco, CA, US

O'Driscoll, Niall P., San Francisco, CA, US

Tanenbaum, Ronna C., San Francisco, CA, US

Bartolotta, Jeffrey, San Francisco, CA, US

Cholach, Sondra L., San Francisco, CA, US

Sauer, Paul Van Der Merwe, San Francisco, CA, US

Assignee: Alexa Internet, (02), San Francisco, CA, US

Examiner: Smith, Jeffrey A.

Assistant Examiner: Misiaszek, Michael A.

Legal Representative: Knobbe, Martens, Olson & Bear, LLP

	Publication Number	Kind	Application Date	Filing Number	Date
Main Patent	US 7373313		B1	20080513	US 2001820207 20010328
Provisional			US 60-199569	20000425	
US Term Extension:	482 days				

Fulltext Word Count: 13434

#### Description of the Invention:

...the web page. Preferably, the client program 124 or the data server 140 checks to **verify** the entered name is actually present on the web page. The ...FIG. 5, the client toolbar web page 608 preferably includes Document Object Model (DOM) manipulation **code** 522 in the form of Javascript. The DOM manipulation **code** 522 is executed to add the web page **embedded** product elements 220 (FIG. 2A) adjacent product representations on the displayed web page 602 by manipulating the web browser's DOM. The DOM manipulation **code** 522 can also be used to make other modifications to the web page 602. Document...



...0082] The toolbar **code** 524 is also preferably configured to create bubbles such as the bubble ...is viewed by the user. The client bubble web page 532 may also contain client **bubble** **code** 534, preferably in the form of Javascript, that implements any desired active functionality of the...identification is preferably included in the client toolbar web page 608 in the form of **embedded** **code** , which is preferably Javascript. The **embedded** **code** , which preferably includes the DOM manipulation **code** 522 and the toolbar **code** 524, will be described in greater detail in conjunction with subsequent steps. If the data... scenario, the client program displays the product-identifying display elements, such as the web page **embedded** product elements 220 of FIG. 2A, adjacent representations of the associated products on the displayed ...

...the displayed web page. In this scenario, the client program preferably executes the DOM manipulation **code** 522 **embedded** in the client toolbar web page 608 to add the display elements to the web...

#### 41/3,K/3 (Item 3 from file: 654)

DIALOG(R)File 654:US PAT.FULL.

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6988093

#### UTILITY

**Unified permissions control for remotely and locally stored files whose informational content may be protected by smart-locking and/or bubble-protection**

Inventor: Grawrock, David, (Rule 47), Aloha, OR, US

Cottrill, Cameron W., (Rule 47), Beaverton, OR, US

Spear, Paul R., (Rule 47), Yamhill, OR, US

Puttonen, Paul, (Rule 47), Frisco, TX, US

Assignee: Symantec Corporation, (02), Cupertino, CA, US

Examiner: Moise, Emmanuel L.

Assistant Examiner: Callahan, Paul

Legal Representative: Fliesler Meyer LLP

	Publication Number	Kind	Application Date	Filing Number	Date
Main Patent	US 7197638		B1 20070327	US 2001934926	20010821
Provisional				US 60-227065	20000821

US Term Extension: 889 days

Fulltext Word Count: 42286

#### Summary of the Invention:

...that Key1 is blocked from being released if a requesting user 901 fails to properly **authenticate** his or her right to having "intelligible" access to the encryption- ...864,297 and U.S. Pat. No. 5,953,419 may be used for such **authenticating** of a user's rights to (a) use a particular workstation such as 910 at...minimize the danger of tampering, the external permission rules should be digitally signed and locally **verified** before being accepted locally during the TTL action...

864,297 and U.S. Pat. No. 5,953,419 may be used for the **authenticating** of a user's rights to (a) use a particular workstation such as 10 or... can be any effective one such as RSA public-key signature, or DSA (Digital Signature **Authentication** ), or MAC (Message **Authenticating Code** ) or one based on elliptic curves. The point is that spoofers/intruders will not be...

...25') in the local client 10/20 into performing operations other than those intended by **authorized** users or administrators of the system 95 ...61b, 62 and 63. As already explained, the digital signature 99 may be used to **verify** that the native version (76) of the Folder-Use record had not been tampered with...g., field 99 of FIG. 1D). In step 206, the On-Open intercept routine 200 **authenticates** the downloaded information by performing a signature check. If the digital signature does not conform...0226] If the downloaded information (52a) is **authenticated** by the digital signature check, then the **authenticated** plaintext of the downloaded information can now be stored into the local use-tracking/managing...available? in step 233 is YES, control passes to test step 236 where it is **determined** if the current file-OPEN request was issued at the behest of an OTF decryption...

...exited via step 299 (A1) as indicated. This blocks undesirable recursion when the OTF-recryption **code** itself tries to open a file...0265] If the result at the user access-rights **verification** step 238 is negative (No), then control is passed to point A2 and thereafter to...

...routine forces a 'failed file-open' to occur. If the result at the access-rights **verification** step 238 is instead positive (Yes), then control passes to a decrypting process such as...or to a hash of such data. A corresponding public key is afterwards used to **authenticate** the signature by comparing the decrypted signature (the version decrypted with the public key) respectively...

...file 161 and his/her private/public key pair is used respectively to sign and **authenticate** the plaintext. In an alternate embodiment, the private/public key pair of the system administrator is used respectively to sign and **authenticate** the plaintext. The private/public key pair of another entity may yet alternatively be used to respectively to sign and **authenticate** the plaintext...file identified in 310 is currently being processed by an OTF module. A first state-**code** may be established in portion 321 for indicating that renaming of the original file and...

...name to a to-be-decrypted local file is still in progress. A second state-**code** may indicate that decryption (step 250) is still in progress. A third state-**code** may indicate that a scorching (total erasure) of the plaintext within the decrypted, local file is now in progress. A fifth state-**code** may indicate that file specifying attributes within the system directory 151 are now being updated...

...reflect a new location or status for the file named in 310. A sixth state-**code** may indicate that OTF modules are not presently processing the file identified by section 310 and that this file is therefore available for usage by any **authorized** application program that may wish to read from, or write to the file. An example of such application program usage is execution of **code** section 172 of FIG. 1E...310. Second portion 322 can include a flag indicating that user access rights have been **verified** by checking the file security label and/or by checking a

recryption rules file corresponding...

Exemplary or Independent Claim(s):

...internal, removable, or external media;

- (b) first testing for each intercepted data access attempt, to **verify** that the identified media on which the requested file resides is currently available, and if...

Non-exemplary or Dependent Claim(s):

...securely import the missing, access constraining control information includes at least one of:

- (d.1) **verifying** a digital signature covering corresponding access constraining control information that is held in said removable...

...access constraining control information of the identified file; and

- (d.3) storing a digital-signature **authenticated** and/or decrypted, plaintext version of the missing, access constraining control information in said internal...claim 5 and wherein said internal/external access-constraining method further comprises:

- (k) attempting to **verify** a digital signature covering the decrypted primary data ...the provision of said grant in response to the intercepted access-request if the signature **verification** of step (k) is unsuccessful...internal, removable, or external media;  
(b) first testing for each intercepted file-closing attempt, to **verify** that the identified media on which the to-be-closed file resides is currently available...

?

**32/3,K/1 (Item 1 from file: 15)**

DIALOG(R)File 15:ABI/Inform(R)

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04614851 1410578561

**Canada Report 2007 Part I Reaching for Subnation Status**

Anonymous

Al Bawaba PP: 1 Jan 10, 2008

JRNL CODE: BWBA

WORD COUNT: 2310

...TEXT: have any rights to your aboriginal land and its resources, although it is a legally **determined** right in part through the Royal Proclamation of 1763, the BNA Act, the Constitution, and...

...body under the command of the United States, a role the U.S. has unilaterally **determined** for itself. [5]

Currently the majority of Canadians are against the effort in Afghanistan, not...

...American economy is undergoing a shakedown of its debt structures now, as the housing market **bubble**, **based** on ever increasing debt and financial trading structures that no one seems to really comprehend, is

deflating rather rapidly. American debt is huge, whether it is **credit cards**, mortgages, national or international, with, ironically, the Chinese and Japanese being able to control the...

...the norms for indigenous rights it becomes a fair argument that Canada has not yet **determined** and indeed is undermining its own sovereignty. If the rest of the world no longer...

**32/3,K/2 (Item 1 from file: 20)**

DIALOG(R)File 20:Dialog Global Reporter  
(c) 2009 Dialog. All rts. reserv.

61838838 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**(Kyodo) - Japan and the other Group of Seven economic powers should show unity as the global economy is expected to "slow down considerably" with the widening U.S. subprime loan mess, said Eisuke Sakakibara, a former senior Finance Ministry official known**

KYODO NEWS SERVICE

February 02, 2008

JOURNAL CODE: WKYO LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 583

(USE FORMAT 7 OR 9 FOR FULLTEXT)

The G-7 financial leaders "should analyze the current conditions, reach a common position and **confirm** that they are ready to take joint action when necessary" at their Feb. 9 meeting...

... or later.

"The subprime woes have not hit bottom and could widen further to involve **credit card** and auto loan companies. It will take two or three years for the entire problem...

...the U.S. dollar and the euro, he said.

"We have had a 'weak-yen **bubble** ' **based** on interest rate differentials, but adjustments will occur with cuts in overseas interest rates," Sakakibara...

**32/3,K/3 (Item 1 from file: 258)**

DIALOG(R)File 258:AP News Jul  
(c) 2009 Associated Press. All rts. reserv.

0020885440 I6E5ABFB0D16711DC8992F93577EC673B (USE FORMAT 7 FOR FULLTEXT)

**'Mr. Yen' predicts further global slowdown, seeks joint action by G-7+**  
Associated Press

Saturday, February 2, 2008 T08:07:24Z

JOURNAL CODE: AP LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT

DOCUMENT TYPE: NEWSWIRE

WORD COUNT: 634

TEXT:

...The G-7 financial leaders "should analyze the current conditions, reach a common position and **confirm** that they are ready to take joint action when necessary" at their Feb. 9 meeting...

...or later.

"The subprime woes have not hit bottom and could widen further to involve **credit card** and auto loan companies. It will take two or three years for the entire problem...

...the U.S. dollar and the euro, he said.

"We have had a 'weak-yen **bubble** ' based on interest rate differentials, but adjustments will occur with cuts in overseas interest rates," Sakakibara...

**32/3,K/4 (Item 1 from file: 275)**

DIALOG(R)File 275:Gale Group Computer DB(TM)

(c) 2009 Gale/Cengage. All rts. reserv.

01251888 SUPPLIER NUMBER: 06884081 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**Mass-storage options rise to the challenges of size, ruggedness. (includes**

**related article on bubble memory)**

Williams, Tom

Computer Design, v27, n13, p83(7)

July, 1988

ISSN: 0010-4566 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 2446 LINE COUNT: 00193

...ABSTRACT: 2Mbytes. Lithium battery-backed removable CMOS memory cartridges are offering similar capacities and lower cost. **Credit card** -sized memory cards are also offering battery-backed memory for such functions as removable RAM...

... let system integrators easily incorporate bubble storage into their design. In addition, Magnesys produces custom **bubble - based** storage subsystems. According to Bill Morrison, vice-president of sales and marketing at Magnesys, bubble ...modules. Such memory modules come in two basic configurations: preintegrated units with standard interfaces and **credit - card** -sized devices with connector pins. The card-sized devices require the system designer to implement...

...memory may be the answer.

A more compact form of battery-backed memory is the **credit - card** -sized memory card. Memory cards are modules containing SRAM chips, control circuitry and a long...s available in either 3-1/2- or 5-1/4-in. form factors. It **attaches** as an external unit to NEC or Toshiba laptops via proprietary cabling for backup operations...

**32/3,K/5 (Item 1 from file: 348)**

DIALOG(R)File 348:EUROPEAN PATENTS

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01288961

**System and method for delivering financial services**

**System und Verfahren zum Ausliefern von Finanzdienstleistungen**

**Systeme et methode de delivrance de services financiers**

PATENT ASSIGNEE:

Citicorp Development Center, Inc., (1175292), 12731 W. Jefferson

Boulevard, Los Angeles, California 90066, (US), (Applicant designated States: all)  
 INVENTOR:  
 Grandcolas, Micael L., 247 Ocean Park Boulevard, Santa Monica, CA 90405, (US)  
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 LEGAL REPRESENTATIVE:  
 Johansson, Lars-Erik et al (9205661), Hynell Patenttjänst AB Patron  
 Carls vag 2, 683 40 Hagfors / Uddeholm, (SE)  
 PATENT (CC, No, Kind, Date): EP 1107149 A2 010613 (Basic)  
 EP 1107149 A3 011107  
 APPLICATION (CC, No, Date): EP 2000203324 000927;  
 PRIORITY (CC, No, Date): US 169982 P 991210  
 DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LU; MC; NL; PT; SE  
 EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI  
 INTERNATIONAL PATENT CLASS (V7): G06F-017/60  
 ABSTRACT WORD COUNT: 286  
 NOTE:  
 Figure number on first page: 2

LANGUAGE (Publication,Procedural,Application): English; English; English  
 FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200124	1322
SPEC A	(English)	200124	18238
Total word count - document A			19560
Total word count - document B			0
Total word count - documents A + B			19560

...SPECIFICATION a logon message to the remote device and instantiates a profile transaction executor component to **authenticate** a customer. A navigation shell component notifies the remote device of the list of available...

...3C.

Figs. 5A to 5D are flow charts depicting operations of the delivery system in **authenticating** a customer.

Figs. 6A to 6C are partial block diagrams of the delivery system depicting...the front door man component 51 adds a session security token to outgoing messages and **verifies** the session security token for incoming messages. For sessions with a CAT/CASST 16, the...control devices via an acquisition mechanism. Upon request, the session device manager component 63 first **determines** the availability and capability of the acquired device and returns the device reference to the client. The session device manager component 63 queries the peripheral device manager component 62 to **determine** devices available to the system, queries the delivery capabilities to **determine** the available remote devices and creates instances of those devices for use by session components...

...The crypto man component 75 manages secret keys associated with external service providers and performs **authentication** of public key certificates. The crypto man component 75 holds security keys for each

external...variable, counter, and status indicator. The status monitor agent monitors status instrument variables and events, **determines** if an external system management product needs to be notified, and sends any important "alarms..."

...the initial welcome page to the customer and collects customer identity and preference information. After **determining** the issuer of the customer ID and possibly **authenticating** the customer, the welcome mat component 81 instantiates several customer services objects to hold information...

...for issuer. The welcome mat component 81 instantiates a profile transaction executor component 91 to **authenticate** the customer and get the customer's relationships or customer profile. This process typically involves...customer data micro app.

The welcome mat component 81 may do four things for customer **authentication** based on acquirer rules and the type of customer ID, such as public key certificate, ATM card, **credit card**, on-us, or off-us. The welcome mat component 81 may provide immediate local **authentication** using public key certificates or may provide immediate **authentication** with the issuer, waiting for a response. The welcome mat component 81 may also provide background **authentication** with the issuer while going on to the navigation shell component 82 or may defer **authentication** to the first transaction. With deferred **authentication**, the welcome mat component 81 may need to instantiate a default customer relationship component 113 and a default set of product types, such as checking, savings, or **credit card**. If a rule broker component 121 does not have a registered issuer for the card/CIN prefix number, a customer ID component 111 is instantiated and marked invalid, further **authentication** of the customer is skipped, and a navigation shell component 82 for invalid customers is...executor component 91 validates properties of data obtained from mini-app dialog components 83 to **determine** whether the required information needed to do the transaction exists. If the data is missing...card information, if a card was used, including the type of card, such as ATM, **credit card**, SmartCard, and tracks present and track data. The customer ID component 111 knows the tier...

...identity, for instance, business code, financial institution identifier, and issuer type, such as bank card, **credit card**, or other third party card. The issuer component 112 knows the PIN length supported and...

...supported, and the navigation schemes supported. The issuer component 112 knows when or how to **authenticate** customer, such as by local validation of public key certificate, immediate to issuer, background to ...man component 122, and welcome mat component 81. The session component 132 sends touch point **attached** notification to each of the components and supports registration of additional session components that need...

...presented with a consistent and familiar interface regardless of the remote device used.

#### B. Customer **Authentication**

An example of the process of **authenticating** a customer will now be described with reference to Figs. 5A to 5D and Figs...

...step E22, the touch point interface component 41 forwards the message to the appropriate session **bubble based** on the session ID in the session cookie. At step E3, the front door man...

...step E28, the welcome mat component 81 instantiates the profile transaction executor component 91 for **authenticating** the ...The delivery system 12 can easily support multi-media. HTML has well-known means for **embedding** and referencing a wide range of media types, for instance graphics, sounds, and movies. The...session bubble starts up normally at the CAT 16. When the welcome mat component 81 **determines** that this customer is off-region, the welcome mat component 81 makes a connection to...

...component 111 and issuer components 112 on the NetCAT server 200. After NetCAT server 200 **authenticates** the customer, with its own external service provider, the NetCAT server 200 starts up a...

...startup, instantiates the customer ID component 111 and issuer components 112. After the customer is **authenticated** with the external service provider, the navigation shell component 82 is started. The customer selects...

...on the customer's transaction card, such as the prefix of the card, it is **determined** what type the customer is, such as whether the customer is an "on-us" customer...rule "answerer" may be installed or replaced independently from components which use that data to **determine** answers to rule questions.

In general, a business rule is a statement of policy driven...

...authorities, the rule engine has no specific knowledge of rules or applications. The rule engine **determines** answers for rules and is used by the rule broker component 121 and calls the...contains specific rules for dispense amounts and ask the peripheral device manager component 62 to **determine** what denominations are available.

B. Example Two, Maximum PIC Retries?

As another example, a rule...

...CLAIMS adding security identifiers to communications sent to said self-service financial transaction device and for **verifying** security identifiers on communications received from said self-service financial transaction device.

12. The method...adding security identifiers to communications sent to said self-service financial transaction device and for **verifying** security identifiers on communications received from said self-service financial transaction device.

37. The system...

**32/3,K/6 (Item 2 from file: 348)**

DIALOG(R)File 348:EUROPEAN PATENTS

(c) 2009 European Patent Office. All rts. reserv.

01262168

**System and method for delivering financial services**

**System und Verfahren zum Verteilen von finanziellen Diensten**

**Systeme et methode de distribution de services financiers**



PATENT ASSIGNEE:

Citicorp Development Center, Inc., (1175292), 12731 W. Jefferson  
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States: all)

INVENTOR:

Lemons, Kyle, 6446 West 83rd Street, Los Angeles, CA 90045, (US)  
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Boyd, Nik, 1741 Maple Street, Santa Monica, CA 90405, (US)

LEGAL REPRESENTATIVE:

Johansson, Lars-Erik et al (9205661), Hynell Patenttjänst AB Patron  
Carls vag 2, 683 40 Hagfors / Uddeholm, (SE)

PATENT (CC, No, Kind, Date): EP 1089206 A2 010404 (Basic)  
EP 1089206 A3 040929  
EP 1089206 A3 040929

APPLICATION (CC, No, Date): EP 2000203320 000927;

PRIORITY (CC, No, Date): US 156684 P 990929

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;  
LU; MC; NL; PT; SE

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS (V7): G06F-017/60

ABSTRACT WORD COUNT: 295

NOTE:

Figure number on first page: 2

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
----------------	----------	--------	------------

CLAIMS A	(English)	200114	2567
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SPEC A	(English)	200114	25356
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Total word count - document A	27923
-------------------------------	-------

Total word count - document B	0
-------------------------------	---

Total word count - documents A + B	27923
------------------------------------	-------

...SPECIFICATION a logon message to the remote device and instantiates a  
profile transaction executor component to **authenticate** a customer. A  
navigation shell component notifies the remote device of the list of  
available...

...the events. In addition, the status monitor agent can periodically poll  
the managed component to **determine** if a local action is required.

In an embodiment of the present invention, an alarm...3C.

Figs. 5A to 5D are flow charts depicting operations of the delivery  
system in **authenticating** a customer.

Figs. 6A to 6C are partial block diagrams of the delivery system  
depicting...the front door man component 51 adds a session security token to  
outgoing messages and **verifies** the session security token for  
incoming messages. For sessions with a CAT/CASST 16, the...control  
devices via an acquisition mechanism. Upon request, the session device  
manager component 63 first **determines** the availability and capability  
of the acquired device and returns the device reference to the client.  
The session device manager component 63 queries the peripheral device  
manager component 62 to **determine** devices available to the system,  
queries the delivery capabilities to **determine** the available remote  
devices and creates instances of those devices for use by session  
components...The crypto man component 75 manages secret keys associated  
with external service providers and performs **authentication** of public

key certificates. The crypto man component 75 holds security keys for each external...

...variable, counter, and status indicator. The status monitor agent monitors status instrument variables and events, **determines** if an external system management product needs to be notified, and sends any important "alarms...the initial wome page to the customer and collects customer identity and preference information. After **determining** the issuer of the customer ID and possibly **authenticating** the customer, the wome mat component 81 instantiates several customer services objects to hold information...

...for issuer. The wome mat component 81 instantiates a profile transaction executor component 91 to **authenticate** the customer and get the customer's relationships or customer profile. This process typically involves...

...customer data micro app.

The wome mat component 81 may do four things for customer **authentication** based on acquirer rules and the type of customer ID, such as public key certificate, ATM card, **credit card**, on-us, or off-us. The wome mat component 81 may provide immediate local **authentication** using public key certificates or may provide immediate **authentication** with the issuer, waiting for a response. The wome mat component 81 may also provide background **authentication** with the issuer while going on to the navigation shell component 82 or may defer **authentication** to the first transaction. With deferred **authentication**, the wome mat component 81 may need to instantiate a default customer relationship component 113 and a default set of product types, such as checking, savings, or **credit card**. If a rule broker component 121 does not have a registered issuer for the card/CIN prefix number, a customer ID component 111 is instantiated and marked invalid, further **authentication** of the customer is skipped, and a navigation shell component 82 for invalid customers is ...executor component 91 validates properties of data obtained from mini-app dialog components 83 to **determine** whether the required information needed to do the transaction exists. If the data is missing  
...

...card information, if a card was used, including the type of card, such as ATM, **credit card**, SmartCard, and tracks present and track data. The customer ID component 111 knows the tier instance, business code, financial institution identifier, and issuer type, such as bank card, **credit card**, or other third party card. The issuer component 112 knows the PIN length supported and...

...supported, and the navigation schemes supported. The issuer component 112 knows when or how to **authenticate** customer, such as by local validation of public key certificate, immediate to issuer, background to ...man component 122, and wome mat component 81. The session component 132 sends touch point **attached** notification to each of the components and supports registration of additional session components that need... presented with a consistent and familiar interface regardless of the remote device used.

#### B. Customer **Authentication**

An example of the process of **authenticating** a customer will now be

described with reference to Figs. 5A to 5D and Figs...

...step E22, the touch point interface component 41 forwards the message to the appropriate session **bubble** based on the session ID in the session cookie. At step E3, the front door man...

...step E28, the wome mat component 81 instantiates the profile transaction executor component 91 for **authenticating** the customer and then passes the CIN and encrypted PIN to the transaction executor component...The delivery system 12 can easily support multi-media. HTML has well-known means for **embedding** and referencing a wide range of media types, for instance graphics, sounds, and movies. The...

...session bubble starts up normally at the CAT 16. When the wome mat component 81 **determines** that this customer is off-region, the wome mat component 81 makes a connection to...

...component 111 and issuer components 112 on the NetCAT server 200. After NetCAT server 200 **authenticates** the customer, with its own external service provider, the NetCAT server 200 starts up a...rule "answerer" may be installed or replaced independently from components which use that data to **determine** answers to rule questions.

In general, a business rule is a statement of policy driven...

...authorities, the rule engine has no specific knowledge of rules or applications. The rule engine **determines** answers for rules and is used by the rule broker component 121 and calls the...contains specific rules for dispende amounts and ask the peripheral device manager component 62 to **determine** what denominations are available.

#### B. Example Two, Maximum PIC Retries?

As another example, a rule...heterogeneous environment. Another problem with current attempts to manage and monitor devices is that they **attach** the issue of the communications to the central node, such that the design of local...

...controller. The status monitor agent 308 monitors managed components and their instrumentation variables and events, **determines** if a local action is required or an external system management product, such as system...cass2 response to the status monitoring agent 308. At S32, the status monitoring agent 308 **determines** the true cash value and sends an Alarm (immediate replenishment needed) request to the management...remote system management protocol format, and supporting secure access to a management server, such as **authentication**, privacy, and non-replication.

The management protocol agent 304 for an embodiment of the present...

...CLAIMS managed component further comprises periodically polling the managed component by the status monitor agent to **determine** if a local action is required.

33. The method of claim 26, wherein monitoring the managed component further comprises periodically polling the managed component by the status monitor agent to **determine** if notification of an external system management component is required.

34. The method of claim...further comprises means for periodically

polling the managed component by the status monitor agent to  
**determine** if a local action is required.

76. The system of claim 69, wherein the means...

...further comprises means for periodically polling the managed component  
by the status monitor agent to **determine** if notification of an  
external system management component is required.

77. The system of claim...

**32/3,K/7 (Item 1 from file: 349)**

DIALOG(R)File 349:PCT FULLTEXT

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01675553 \*\*Image available\*\*

**APPARATUS, SYSTEM, METHOD AND COMPUTER PROGRAM PRODUCT FOR PRE-PAID LONG  
DISTANCE TELECOMMUNICATIONS AND CHARITABLE FEE SHARING**

**APPAREIL, SYSTEME, PROCEDE ET PRODUIT DE PROGRAMME INFORMATIQUE DESTINES A  
DES TELECOMMUNICATIONS LONGUE DISTANCE PREPAYEES ET AU PARTAGE  
EQUITABLE DES FRAIS**

Patent Applicant/Assignee:

AMERICAN TELECOM SERVICES INC, 2466 Peck Road, City of Industry,  
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designated states except: US)

Patent Applicant/Inventor:

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US, US (Residence), CA (Nationality), (Designated only for: US)

Legal Representative:

KELLEY Matthew E et al (agent), VENABLE LLP, P.O. Box 34385, Washington,  
DC 20043-9998, US

Patent and Priority Information (Country, Number, Date):

Patent: WO 200873155 A2-A3 20080619 (WO 0873155)

Application: WO 2007US16770 20070726 (PCT/US 2007016770)

Priority Application: US 2006636087 20061207; US 2007761319 20070611

Designated States:

(All protection types applied unless otherwise stated - for applications

2004+)

AE AG AL AM AT AU AZ BA BB BG BH BR BW BY BZ CA CH CN CO CR CU CZ DE DK  
DM DO DZ EC EE EG ES FI GB GD GE GH GM GT HN HR HU ID IL IN IS JP KE KG  
KM KN KP KR KZ LA LC LK LR LS LT LU LY MA MD ME MG MK MN MW MX MY MZ NA  
NG NI NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SK SL SM SV SY TJ TM TN  
TR TT TZ UA UG US UZ VC VN ZA ZM ZW  
(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LT LU LV MC MT  
NL PL PT RO SE SI SK TR  
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG  
(AP) BW GH GM KE LS MW MZ NA SD SL SZ TZ UG ZM ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 15921

Fulltext Availability:

Detailed Description

Claims

#### Detailed Description

... user a personal calling card number (e.g., a personal identification number (PIN) or an **authorization** code). A PIN or **authorization** code may include, e.g., a seven to fourteen (7-14) digit exclusive number. The ...

...using a private branch exchange (PBX) 112.

[00021] Passage of the Telecommunications Act of 1996, **authorizing** competition in the local phone service market, permitted CLECs (see FIG. 2, 104c, for example...

...In an exemplary embodiment, a button may be provided on the phone to indicate user **authorization** of use of value. In an exemplary embodiment, the value may be stored in a...

...the value.

[00033] In an exemplary embodiment, a method may include: prompting the user to **authorize** use of the value. According to an exemplary embodiment, user **authorization** may include, e.g., but not limited to, a validation; entry of a password; entry...

...may include: prompting the user to replenish the value upon the value reaching a pre- **determined** threshold.

[00037] In one exemplary embodiment, the method may include where the prompting may include...

...account; a debit card account; a checking account; a money market account; and/or a **credit card** account.

[00042] In an exemplary embodiment, the feature code and dialing sequence of the communications...

...further include: prompting the user to replenish the value upon the value reaching a pre

**determined** threshold.

[00049] In another exemplary embodiment of the machine readable medium, the prompting of the...

...one of: a savings account; a debit card account; a checking account; and/or a **credit card** account.

[00054] In another exemplary embodiment of the machine readable medium, the feature code and...

...graphical user interface (GUI) element, a button, a depressible spring-based button, a compressible plastic **bubble based** button, a touch screen, a pen based interface, a GUI input field, button, element, etc...

...feature codes to notify the switch of the originating end of the call to display **authenticating** information to the pre-paid service provider

switch, such as, e.g., but not limited...

...the value.

[00087] In an exemplary embodiment, a method may include: prompting the user to **authorize** use of the value. According to an exemplary embodiment, user **authorization** may include, e.g., but not limited to, a validation; entry of a password; entry...

...the user, place a transaction, making a purchase, for example, without needing to provide their **credit card** number over the telephone. Much like an EasyPass, after a user has set up the...embodiment, each time the value of a customer user's account may hit a pre-**determined** threshold level, then the user may press the LDS auto-key to connect to the...

...account has been depleted to a zero balance (due for example to expiration of a **credit card** being used for automatic replenishment), then operation may be inhibited and diagram 600 may end...

...have been captured, the user may be allowed to use a value of promotional minutes **determined** by the provider of the phone device 402 that may have been pre-provisioned on...

...payment; i. Post activation; 1. Exemplary functions may include accepting and charging users account via **credit card** ; a. Exemplary functions may include setting up Auto recharge at users request; b. Exemplary functions...

...l or integrated services digital network (ISDN) primary rate interface (PRI). An ISP can also **attach** to the Internet by means of a pipe or dedicated communications facility. A pipe can...it is appreciated that throughout the specification discussions utilizing terms such as "processing," "computing," "calculating," "**determining**," or the like, refer to the action and/or processes of a computer or computing...

...or other indication, etc., which may be used to any one or more of initiate, **authorize** , **authenticate** , and/or validate, or the like, a fee sharing arrangement. According to an exemplary embodiment...

#### Claim

... further comprising: prompting the user to replenish the value upon said value reaching a pre-**determined** threshold.

7. The method according to claim 6, wherein said prompting comprises prompting via an...

...market account; a savings account; a debit card account; a checking account; and/or a **credit card** account. 5

12. The method according to claim 1, wherein the feature code and dialing ...

...further comprises: prompting the user to replenish the value upon said value reaching a pre-**determined** threshold.

19. The machine readable medium according to claim 18, wherein said prompting of the...

...market account; a savings account; a debit card account; a checking account; and/or a **credit card** account.  
24. The machine readable medium according to claim 13, wherein the feature code and...

...said value.

37. The method according to claim 29, further comprising: prompting the user to **authorize** use of said value.

38. The method according to claim 37, wherein said **authorizing** comprises at least one of: prompting the user to provide at least one of a...

**32/3,K/8 (Item 2 from file: 349)**

DIALOG(R)File 349:PCT FULLTEXT

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01537571

**GENIUS ADAPTIVE DESIGN**

**MODELE D'ADAPTATION AU GENIE**

Patent Applicant/Inventor:

CABINALLA Linda, 1145 Delaware St, Fairfield, CA 94533, US, US  
(Residence), US (Nationality), (Designated for all)

Patent and Priority Information (Country, Number, Date):

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Detailed Description  
Claims

Detailed Description

... according to bva/uiip of user); CART (each cartA: seeks for

different signals in **determining** U's behavior / has different pr which takes and then processes BVA's signals accordingly...

...and is controlled by C (UIP / uk objective of communication), which analyzes sounds and makes **determined** voice modulations. G. "Speech" ~ "Sound Analyzer" ( **determining** speaker's behavioral modes) UIP.

Applications: if user is lying and which words tie to...

...how the singer with only their natural means needs to make alterations-aim can be **determined** viaA: selecting from option in menu; PP; UIP-ap: good for music education; useful...

...CID = CID recognizer = C-T. o 5A-900 In-coming Telephone Sales System: Caller ID **determines** how call is handled within large tel networks: Incoming calls to large sales networks are...

...to established customers, all depending on the sales person's characteristics. 5] UIP I BVA **determines** if soft or hard tel skills are needed (for technical support service) and: a] routes...

...MP/PP-applications: —C decides type voice frequency desired for particular applications. 1] UIP **determines** frequency (in sales, the caller ID of customer labels desired frequency); 2] K21 1-5A...

...is related to above or? Below was dev 3.94: o 5A-900? Caller ID **determines** how call is handled: o-Caller ID can be incorporated into PS system too D...

...by-lines and or descriptions about the other party (as provided via UIP); ENTERTAIN; FS \*\*: **attached** to tel in diagram; GAME \*\*: (each participant's caller id acts as one of their...

...by merging following dataA: items purchased over tel line, purchases made with their cards ( **credit cards** , other member related cards) in other modes too. This way marketers develop detailed calculations about...

...firms, the more sharing the larger & more complex the database system, and more accurate in **determining** customer characteristics. o-"sound analyzer" also helps in analyzing caller's behavior to some degree...

...mm-c-t COLOR \*\* = S's COLOR changes according to the frequencies (what "sound analyzer" **determines** voice/sound to signify (happiness) / UIP.-D: sound = sound analyzer = C-tel = DISPLAY/TR = C...useful source of information for my/other's products to compile: UIP / SCORE. Or to **determine** if "access" is permissible; or develop questions for MQ, or answers for UQ.-makes contacting...

...Applications: o If user hasn't risen from bed such call(s) can be activated. **Determination** of having risen is in my past inventions: 1] tripping of laser light shows person...

...By Other Hands free Means; Gen: Activation/Dialing/Deactivation UK/"remote" methods: UK. buttons separated/ **attached** to: TEL (tel can be replaced by other communication device (walkie talky, TR)-Foot pedal...

...hold-caller's ID (shows their UIP)/caller's city/country area code can help **determine** type music they would prefer-if desired, user can



program from their tel to have...tel ("T") # / trunk, highly sophisticated systems use BVA %[& any useful elements from uip] to help **determine** / decipher who the speaker is (from others using said tel ("T") # / trunk. CAMERA (LENS)A...

...in which users k needed digits (as requested by voice mail / for extension #s) helps **determine** u's behavior. EgA: fast smooth entry is intelligence / familiarity w co or system...

...kindly visit the detailed features section listed in the table of contents. ADAPTING™ = Invention **determines** what is needed, and then automatically 'adapts itself'. A common example is when it 'adapts...

...system can help 'guide user in altering images. System's 'Visual analyzer with wide powers, **determines** the characteristics of the image to be altered. Later read more details in the detailed...

...Public: 1. System 'senses it's outside the home. 2. adapt (UIP)'s 'sound analyzer **determines** some dog has barked. 3. Via hetero-associative memory it realizes there's a dog. 4. Via associative memory it **determines** it's the owner's dog. 5. adapt (UIP) responds to owner's dog barking...

...at home. BA BEHAVIOR ANALYZER / \*BVA = Behavior Analyzer. This important feature uses multiple means in **determining** the behavior of who or what it is kindly observing. This information is available to...

...C = Computer. Central processing unit of this system and its inventions. CONTENT ANALYZER / CA = System **determines** the nature of a substance. Think of a substance you would like to have analyzed...

...down; the window will only close far enough as not to cause damage. 3. It **determines** which functions are more valuable for the person, and 'tailors accordingly. CUSTOMIZE = Same as 'Tailor...

...for "D". The old definition for D was telephony. [Since "D" for diagram is easily **verifiable** due to context, e.g.: it normally was followed by a colon and then diagram...

...or the 5 environment. It may adjust itself for greater EP. Analyzer uses sensors to **determine** what's happening. It 'seeks and reacts to designated situations. EXERCISE \*♦ = 'Guides and allows...

...something is based on its tag. . READ Later; Shows object's location (or person its **attached** to); Correlates an object's location in relation to that of other set objects, eg...

...is notified when something happens. They are alerted to the occurrence of any designated event. **Determines** the nature and degree of urgency, and how best to alert the user. . READ Later...

...user's listening abilities and preferences, e.g. offers higher volume when the Sound Analyzer **determines** there is background noise. OTD \* = Other Technical Details. What can maybe be read later. Usually...

...historical information. Step 2] identifies (past) patterns, especially searching for parameters as 'designated. Step 3] **determines** present and or future (known) events or parameters. Step 4] Fills in the missing

elements...

...allows 'access to 'designated functions according to the zone of user and or what's **attached** to the 'positioning device. Q / QUESTION / QUESTIONNAIRE = System asks questions to get needed information. System ...butler to handle matters as things come up. SENSOR(S) = Uses any available sensor to **determine** what has or is happening. Sensors can 'score for the presence of certain chemicals. The...

...status of a current situation? It is cheaper than hiring a live person. The feature **determines** the status of something based on what scores have come in. For example: This invention...

...to what has been seen. . Read Later: Studies image thru its 'camera. "Analyzes" images. System **determines** what images are present, then system responds to images as programmed. It's 'tailored to...

...own way of triggering the code. Examples:-human keys in code-characteristics of subject are **determined** (via sensors / uip), these characteristics hence trigger one or more applicable codes. —Drawing #1...

...and identification cards.-Checks the right person is using their card by matching fingerprints. Applications: **credit cards**, ID card systems.-Can take fingerprints of those registered with (international agencies, then you might...

...precaution too. It accepts those who are sending their payments in time.-use when using **credit cards** or other cards or other situations/products-eye in machine can ask person to put...

...is built into the password. It can be the live or automated security guard that **determines** how to handle/' react such a flagged password user. Passwords later associated with minor deviant...

...More serious deviation results in revocation until the password holder can pass diverse tests to **authenticate** themselves. 'Customization: Greater 'tracking is made upon user's whose 'scores suggest they're more ...

...user's belief for what the [stolen] 'accessed feature possesses. This data can become legally **authorized** software like virus [which leaves a trail] that can hopefully later be deactivated if/when...

...safe guard. End File: Ac-Ba + File: Access "Ac-Ba "ACCESS-BEHAVIORAL ANALYZER" Introduction: System **determines** user's identity by their personality profile, in other words their pattern of behavior on...

...a computer can be analyzed. System replaces a human sentry, which can permit access and **determine** if user's behavior is appropriate. Also uses fuzzy logic. Learn about our quick and...

...The Sensitivity Rating Function tracks changes in the file's content or usage to automatically **determine** if an increase or decrease in the level of security is needed. + Do: Take material...

...uiptailor". . "Education": correct behavior taught to accessor thereafter such (correct) behavior required. Needed "education" **determined** by accessor's behavior. .-Morning alarm: "designated" "reactions" from u (user) are "educated"= so...

...private co's or credit rating agency or government] data base of people:-employer helps **determine** safety in issuing security clearance to 'designated users,-employer's info shared with the data base service can: —help **determine** employer's and database's 'analyzer in **determining** the 'user's new/changed security rating score. '—help data base bureau's data...

...from the same clients. Spell Checker: the same people often make identical spelling errors. Helps **determine** if correct party is the accessor. The language interface requested by user can also be...

...to gaining (any type of) access to said system. Their: criminal record, behavior as somewhat **determinable** by their curriculum vitae; facial analyzers %; intuitive reports written by others at work place (about... can "edit" the file's label(s); if hackers accessed material previously, or "access controller" **determines** a higher / lower security rating is needed.-"Morning alarm": it's levels of: effectiveness, "entertainment...

...alarm": those with more difficulty in waking. Composite factors: W5 composite of factors used in **determining** "accessibility":-Any one or multiple factors **determine** = "access"; one or multiple scores; the type score most applicable carries greater weight; system "merges...

...30%= sys may permit access. Reasoning behind this: the score matching of other files helps **determine** legitimacy of accessor; system can narrow the level of tolerance for deviant scores for each...

...how good it's uip-tailoring; user happiness. Also uses "questionnaires" answered by accessors in **determining** final scores; these ask accessors their: intuitive suspicion; user friendliness; how to alter scoring; W5 ...

...stalls "MOOD" = Accessor's level of: (happy) "entertainment". Their "mood" is used as score. Mood **determined** via: key word searches of what accessor inputted / "experienced". "Morning alarm": uplifts user's...

...so they're also mentally more awake. "PROMPT" = User's score / their uip-db much **determines** type of prompt they'll get. "PS-ZONE" =-bull's eye: Like concentric circles, the closer...

...monitoring:-Does accessor give indications they are hacking another company's system (as well)= as **determined** via "track".-Other DB: Criminal records; accessor's school or university records. . Accessor's importation...

...in general terms; gives differing examples, eg: computers judging how much credit to give to **credit card** applications based on other similar people's past histories.-UIP formerly titled "PI".-For Techies...

...user, or "M"; user takes one or more test(s), the type and quantity are

**determined** by the desired application of product; another person or device (M) gives information about user...

...microphone ("mic") (voice recognizer); mouse; mp; multi-user; uip's database guides system's functions (**determines** the type, manner, timing, whether or not to notify, mq, osc, synth; pp; uip database...

...actions-> database (behavior). Eg, Ubiquitous computing: u carries (tiny) "c" that communicate with other "c" **embedded** in: appliances, t, cars, walls, K a y s ' N . Eg: Xerox's Park Tab...

...made with part or organism); pr (software program) ; PS (location of external product is a **determining** factor in deciding if any/type connection/contact is to be made); R (remote control...

...like the default mode to give you 10 minutes before such prompt (after sys has **determined** ("status") 80 percent of the past 50 interactions between u and mlh (mainframe hookup) were...

...maybe u wouldn't want the change to occur w/o (without) their acknowledgement. Manufacturer **determines** to what degree uip-ta flor will suggest or bypass former and simply alter...

...ideas for research.-KN: medical prognosis sys that studies all the characteristics of illness in **determining** type of illness = 2E S suggests possible medications.-Suggesting possible combinations for drug to solve...7G050) = SW (software) suggests: types of protection (protective gear); methods of (cautious) research (protocols) already **determined** to be safe via reference manuals on the subject or SW ('software) (db). 0 "PR...

...EDUC ; MULTI-USER ; pr (software program) ; Q (asks questions) ; ROUTER ; +SCORE (given to each aspect = **attached** to each element of: goal 5 & potential ingredients); SENSOR (7G050); STATUS ; tds (time date stamper ...

...at 0.5% of soup volume to be real salt. 2] This preferred percentage is **determined** via: what u (user) K (keyboard) / nr ('notifier) placed in soup. 3] User K (keyboard...

...the company).-Each element has different files, according to the circumstance of its usage. "Analyzer" **determines** which sub

files are applicable via, eg: label of file, % key word search, "status"\*, uip...

...only 2% of glove/container types are suitable for working with acids = next SW (software) **determines** three best gloves/containers for said acid, listing best first. 4] If u (user) is...

...be used) = S/Printer. 6] While research is taking place = "sensor" = "analyzer" = NR: when sys **determines** there is or could be (based on score) a situation needing special attention (danger, loss...

...Manner in which images are generated / something is "edited" = is unique like finger prints= as **determined** via ba. The level and types of narrow scoring on "drawing" is unlimited.-"Character" = "Image...

...access can be changed / "edited" (according to w5 / uip (how accessor behaved, eg: they were **determined** to be a hacker) / creating additional hurdles).-These parameters change (gradually) as uip "analyzes" accessor  
...

...lesser tolerance for deviation from expected behavior / 'access requirements of user]. "EDIT" = BA=UIP-Tailor **determines** what ("entertainment") u (user) (subject) should experience. The type experience "designated"= is designed to fit...

...highest apple on third tree. See "Game"="Access". —How a user plays a game **determines** access: 1] sys studies u's moves via = uip, eg: u (user) prefers using rook...

...files are merged= based on= ba. "MOOD" = Sys matches its characteristics with that of whafit **determines** user's behavior is like.  
."Hint": the mood created gives cues / "prompts" for u (user) to answer "questions" (needed to help **determine** accessor's authenticity). .-This is an example of a subset of "Mood". And this "mood..."

...Sys generates questions which require correct (near correct) responses to gain / maintain access. Randomly selected **authentication** challenges.-DB uses file of questions= chosen at random= then "seeks"= correct "reaction" (answer).--Exists...

...they've been identified by sys. 3] Sys monitors U's activities. Hidden (computerized) codes: **embedded** in stolen data: easier to "track" where these codes go; eases court prosecution. 2E25 1Intelligent...

...behavior analyzer) = Conclusions (Score) utilized by "analyzer" / UIP-DB. . Miscellaneous:-information used to monitor and **determine** who user is and W5 they are doing. . "Track": System identifies via a third party...

...if accessor's changing rating stays good= uip-tailor / "access controller" permit access.-if system **determines** this user's usage of a sophisticated electronic system matched their normal behavioral profile, by...

...being critiqued by said voice. Hackers may not know which is the correct voice, nor **attach** the voice with the needed answers. These voices may not have tags such as boss...

...act in some manner to gain "access". This is a very broad area.-Example: "BA" **determines** if u / viewer had good/undesirable behavior (w/in parameters of system's ba of...s Parts Section. \* Product's "access" functions +might be (slightly) altered according to U's **determined** (via: BVA/UIP) behavior. \*-The OSC's sound quality (might be) is so excellent / similar in...

...person better matches = then communicates w them to create maximum psychological impact (sales, "mood") as **determined** via "analyzer" / K / pr. D: mic = bva / uip = c = osc. . For techies: D: Organism being...

...required ] = C = ACCESS 0 // ANALYZER () // EDIT = "Seek & React" = (sys edits out less needed input from: **determination** if accessor is legitimate) // NR (penalizes u when u acts poorly (undesirable behavior) = electric shock...

...TDS (w5 u behaved-> builds up UIP-DB) // TRACK () // UIP () . [UIP = DB collection] / "Question" to **determine** authenticity = Example of source that "analyzes" behavior: "Who do you think you are?", a CD...

...out (at "designated" times). Eg: training animals to behave in certain ways by= having 'ba **determine** desired behavior= and if so= allowing access. See: KN's animal "tracking" and "analyzing" systems...

...access controller ("tracks" W5 it monitors= punishes), since it can't always be trusted either.- **Determines** such type accessors based on their: performance or work results "score"; errors they make; psychotic ...

...gaining access-pat search strategy: (tilt\*) and (password\* or activate\* or access\*). . R45 'Dynamic Signature **Verification**': Write in your password. System identifies user's handwriting style too. [Communication Intelligence Corp, Redwood...

...needed passwords are those that accessor knows or can guess, but difficult for hackers to **determine**. Subset of "Generate Passwords".-Value in changing passwords: u may not force themselves to change...

...Altering responses to access/questions based on cue when such alterations should be made.-"Hint" / Cue **determines** how passwords are to be altered. Eg: I]if u receives tel call (from machine...

...96: ((change\* or changing or alter\*) near9 (access\* or accesses\* or accessing or password\* or **verif** \*)) and (computer\* or electr\* or software\*) not alternative-User must meet one or more differing...

...hiding or hidden) near1 (camouflage\* or access\* or accesses\* or accessing or password\* or **verif** \*) and (computer\* or electr\* or software\*)-Certain files can be kept closed or virtually unreadable...

...need to study (ba)= accessor's. -Example passwords: —subjects they commonly access or are **authorized** to access=access' caution "analyzer" is triggered when behavior is out of the ordinary. —...

...s). . Manner of hints are "editable" (according to "order\* & timing" as guide).+ How System(s) **determines** how to "hint" = "uip-tailor": see: "generating passwords", and other access sections; what accessor previously...done in artistic / creative manner: "compose" sounds / lights / other Frequency-%(sys's (behavioral) "analyzer"(helps) **determine** entity (trying to gain access), according to type creative work, eg: similar to **determining** real composers /painters by characteristics in their work; balance: u must create/ hear sounds in...

...access=bva (sys seeks certain audio Frequency / words / rhythms / decibels); c=access; camera: visual analyzer ( **determines** u (via uip / matching current lens' input w/ database of u)); cart: c(cart)=access...

...other hurdles.-Accessor= generates "order & timing" related behavioral pattern(s)= permit "designated" "access".-Other elements **determining** timing of access: Gravity from moon or planets (see astrologers); astrological charts designating which days...

...based on u's "status" /"score".-9G220 Channel Scanner Skips Stations Having Commercials:(access/uip **determines** what (w5) u needs to view (access),communications/data that can selected include: t, mo data...

...data must be tr by the second of three people. Access sys's = "analyzer" randomly **determines** which of the three A/B/C allows access (on a month by month basis...

...brands of soy sauce or other Asian sauces.-Labels on products w/ designated chemicals. Labels **attached** to product. Eg: Floppy disks; "cart".-Passwords can be built into part of product. Only...

...access".-Exists: bar code readers for "billing"; magnetic strips on flat keys for "access" and **credit cards**; microchips built into keys for "access", eg: on Cadillac cars.-Patentability: System(s) "seeks" elements ...

...alarm": are body odors slightly different in morning? If so this can be utilized to **determine** wakefulness. Applicable to animals being researched? "SOUND ANALYZER" = Synthesizer: Password is the setting needed to...

...5A500 Sound Lock: Activate lock by emitting special inaudible sounds from tiny pocket device. +-Key **attached** to the sound transmitter. +-sounds may be inaudible to human ear, lock opens. Helps prevent adding to security.-4E020 Content & Date **Verifier** : of (any said) occurrences, eg:"tracks" occurrences; "analyzes" occurrences (for uip)"Speech": voice recognizing System(s) seeks certain sounds "sa".-Patents: 5450524 Password **verification** system based on a difference of scores ("scores") of type sounds (SA); 54993 1 audible...

...be used to create "artist's" images-> gain "access": Manner of sound generation (by u) **determines** type image. Accessor= generates sound pattern(s)= permit "designated" "access". , . Changeable password elements. "Order Sc...

...from u (as u walks by "sensor");Magnetic Device. . R1 27 [ Commuter's train ticket **credit card** : circuit emits frequency read by device in ticket gate. JR (Japan Railway) ]. Also copied to...

...being: a size (fits into slot);include a microchip with built in password; (standard) key; **attached** to another kn (invention) password generating device. "Transmitter" = Accessor's "Key".-Drawing: similar or opposite...

...airwave.-activation via vibration(s)-the level of vibration (impact /movement) and or the code **determine** "access". The 'code' is **determined** by: time period of each vibration mode / time period between each mode / level of vibration...

...into their "designated"= "trap". Morning Alarm: if user turns off system / deactivates alarm \* in/on- **authorized** manner=punishments can include: loss of files /other functions alarm System(s) is tied to...

...people according to their access/uip (code)).5G061 Dyslexia Software: (speed at which info given **determinedly** u's access: either u gets info

faster (inhibits uninitiated computer hackers) / SW (Software) slows...

...or pictur\* or (bar near2 code)) near9 (access\* or accesses\* or accessing or password\* or **verif** \*) and (computer\* or electr\* or software\*) Accessor= generates image pattern(s)= permit "designated" "access". Changeable...

...permits 'access to any privilege described in the "access" part. .

Applications include: (deactivate alarm; additional **verification** of u (user) (person trying to gain access (via matching images / uip-ba (signature analysis...

...in order to avoid hackers getting a non-changing password type image or method. Sys **determines** (from hacker's point of view) haphazardly w5 needed images are changed (according to circumstances). —For Teenies; Drawing: User = This (invention) Sys (what helps in the **determination** ("analyzer") for type images needed = % type images given (entered); type prompts and or other challenges...

...be drawn.-Prompts: For Techies; Drawing: User = This N (invention) Sys (type prompts given u **determined** via) ~ c (computer) = ACCESS ; ANALYZER ; CART (software cartridge) ; EDUC ; mfh (mainframe hookup) ; MULTI-USER ; PR...

...KW: access-US Patent Numbers: 5319797 5222138 4903991 4908861 4991205 + 5 111512 Method for signature **verification** -1992 patent, Access is given with correct signature. 4850018 4869946 4758718 4799258 4816653 4851937 4876717...

...one walks about near the motion "sensor" = "access".-UIP / BA: these are also used in **determining** whether access is permitted. Sys "analyzes" past and current images generated by User and studies...

...and/adj1 5 ((gain adj9 access\*) or enter\* or password\* or secur\* or protect or **authoriz** \*-US Patents: 5491752 Increases difficulty of password guessing attacks. —Pat search str: Worked w...

...UIP" (uip-db)-password itself encrypted = and only decrypted by access point's "analyzer" = to **determine** if access permitted. + See "Artist" image generating modes; any of these can create the necessary...

...scanned the list, eg: 5323465 Access control; 5289540 Computer file protection system; 52763 14 Identity **verification** system resistant to compromise by observation of it use; 5206905; 5115508; 5 111185%; 5097506.-US...

...at search strategy for all of "Access": (access\* or accesses\* or accessing or password\* or **verif** \*) and (comput

er\* or electr\* or software\*) File: Access  
Ac-Pa ACCESS PATENTS AND PATENT...

...only scanned the list, eg: 5323465 Access control; 5289540 Computer file protection system; 5276314 Identity **verification** system resistant to compromise by observation of it use; 5206905; 5 115508; 5 111185%; 5097506...



Claim

... and adaptive designs' database of features. This interface is designed for both potential licensees, and **authorized** people with higher 'access privileges. All agreements must be in writing from **authorized** person, other interactions are brainstorming. . Licensees seeking zero royalty payments during a trial period exceeding...

...on the system's 'computer. . Search Engine Like Searching: The millions of criteria used to **determine** relevancy by functions related to web search engines can be used. —eg: Google.com...integrate to 'adapt. [Can] learn on CRCs (work station)/N/printed information (book). EGH \* = The **determination** of changes in difficulty (via score, uip) and 'correlated invention for 'adapted purpose can be...

...every other part/invention/claimable matter via a nearly infinite number of methods. CONTENT & DATE **VERIFIER** 4E020 REGISTRAR: Track which inventions were used. System proves who did what electronically trackable event...

...uses needed aspects of the united invention, to achieve the desired function. The need is **determined** through 1350 an 'analyzer. 'Adaptive Design 'tailors itself' to needs based on available resources . Summary  
...

...definitions/functions greatly overlap. Summary rewritten using many parts (function) terms: 'User (has their needs = **determined** by themselves or UIP) = Optional Occurrences:

1. User is 'educated and 'guided to [better] **determine** what [invention or function] they want; and how to use and of benefit from it...

...carry out desired function. Simplified nodules may receive additional parts to carry out desired functions ( **attached** /snapped on by user) according to (central computer's, teacher's, common sense, book's...

...the product description and diagrams-. The inventor's description in his native language is also **attached** for mailing. -Letter is available in 18 languages, and can be selected by user-User...

...serves also as a type of interactive computerized point of sale, accepting **credit cards** , etc.-software is likely to offer possible suggestions and or directions into the right branch...

...predicted to come out of invention are selectable and with prices . This information can be **attached** to letter inventor sends to manufacturer -this is more fun than playing chess or watching...

...the letters

5: CD-ROM reader; pre-recorded music generating system; etc

6:

6a.-Analyzer **Determines** Sound Effects: sounds are generated to stimulate user's creativity. The system selects appropriate sounds...in the product number's central description or in one of its branches; and or **determined** by: the user / "target parties (via : "creator's" central

computer; and or mp/pp/cart...

...both the situation and a (potentially corresponding) need. Its broadly termed "analyzer" ('behavior analyzer = 'score) **determines** what will best meet that need. This leads to an output which includes: a 'tailored ...

...the situation. UIP's Invention Creating Machine Claim shows: . How a list of needs are **determined** , and then is correlated with a list of potential functions (inventions in the . ' . : . 1359 ... i...

...re]learn to use [poor/[non]functioning] parts of human/organism brain. "Tailor tests user to **determine** brain functioning 'traits = then designs 'educational program = then 'guides and rewards user.-See 3CE file...

...better] meet needs [even if all functions/aspects remain [mostly] available: Another mode/function is **determined** to better meet needs = then system goes via new links/functions [to better 'adapt itself...

...default mode = and need gets met [with only temporary interruption/aberration] until new mode is **determined** /tested/toetter 'adapted (after it [re] learns needs). 5-A user [person/(another) system] can request/suggest/get 'guided into **determining** alternative/better modes. Figuring Out Something Is Not Working Right So Other Functions Compensate: ' . : 1361 Topic Reworded- **Determining** Something Is No OK. Should any number of functions/parts be unavailable, how the remaining...

...functions can 'adapt and still provide [all/some of] the same functions. How to [Automatically] **determine** a [current] function/mode is [not]-ideal/inoperable. E.G.: When user: disappeared / changed their...

...also] used for creating the 'score.-Signals sent to/from [central] and function-to [help] **determine** its state of functioning based on whatever criteria, e.g.: how useful it is/was...

...altering the mode, and or 'seeking a new function by creating a new link] = then **verifying** if the new link/function achieves a [better] 'score. —Function [continually] does self checks...

...sound analyzer hears a truck stopping at the same time via its 'time date stamp. **DETERMINING** A FEATURE(S) ISN'T IDEAL: [Parts Section #1]: U = Applicable Functions Of Invention [1...

...minimum] 'score has changed (for the worse)] ~ ' C (CPU) / 'Analyzer = [Parts Section #2]-How 'Analyzer **Determines** Something Isn't ideal: ACCESS (Security Control)[not granted (despite repeated attempts to gain entry...

...guidance that doesn't directly ask user to 'score the function, but by inference (may) **determine** a malfunction is occurring-cg: user couldn't provide (proper) answer/feedback about something they...

...parts] listed are important in this application. EXAMPLES IN SPECIFIC PARTS: Shows how it's **determined** a part isn't OK, then how to compensate. U / Another Function = This N Sys [1. **Determining** Function's Not OK. 2. Compensation(s)-Solving Problem By 'rerouting To

Other Function(s)]-C = ACCESS [ **determining** what's not OK] = IParts  
Section # 1J: U = 'Access = IParts Section #2 —Access maybe...

...sub-parts/remnants for all/portion of itself in each (main) part.  
This **determines** what's not OK about the 'access part; then can  
compensate by 'analyzing/'tracking user...

...is controlled automatically by 'seeks & reacts] //T (Telephony) [system  
connects to other functions/systems to **determine** if something is not OK  
/ compensate] // UIP (User Info Programming) ['adaptation occurs  
automatically without 'analysis...

...EDIT = 'tailor the text; artist-edit. EDUCATION = 'tailor = 'guide.  
'Access appropriate files. 'Analyzer / 'Behavior Analyzer **determines**  
what needs to be taught. 'EGH. Answers to 'Questions = 'Guide / 'Analyzer  
/ 'Tailor. 2 5 ENTERTAINMENT...

...the needed situation via: 'multi-media, 'entertainment, 'order & timing  
for how it functions; 'predicting; 'analyzer **determining** what is needed  
w5 and in what 'order and timing. 35 K (Control via keys) = 'Remote  
control; 'tilt, 'tailor **determines** user's needs without user needing to  
key in their interests. Creating 'artist related 'images...

...hand and [wireless] device's 'osc will sound. 2] GPS; PD; 'distancer 3]  
'Sound analyzer **determines** where the sound is coming/came from, its  
change in location and speed. 4] 'Notifier...

...date stamp signals the = 'notifier. 55 MOTION SOUNDER = 'vibration  
analyzer = 'osc MULTI-USER \* = Different user **determined** via = 'access  
[password] / 'ba how something is requested to be, -, . ' : , , . 1365  
'tailored by user or...

...made improper/questionable 'access [spent too much time in highly  
protected topics/zones] = which is **determined** by 'scoring = the  
occurrence is then 'analyzed and system **determines** to continue  
'tracking / deny [full] 'access. 2. The pattern by which person is  
[getting] 'routed = results in 'reactions [functions for which are likely  
to trigger the 'notifier / 'ids **determines** there's a lack of timely  
payment] = then system 'reacts by further 'tracking / 'routing person...  
...re]learn to use [poor/ [nonfunctioning] parts of human/organism brain.  
'Tailor tests user to **determine** brain functioning 'traits = then  
designs 'educational program = then 'guides and rewards user.-See 3CE  
file...seeds w/ stickers) on fur, ticks, dander, dandruff, (shedding  
hair/skin).-(Pet) Collar: gives access. ( **Embedded** ) pet ID.-BA: connects  
UIP (of pet or master)=w pet's (behavior /needs of...

...of whether other pet behavior parameters have been met).-% pet learns  
new tricks: sensor is **attached** to **determine** how pet has acted (w5).  
Issues:-No cleaning device may be perfect but this one...

...toys, etc.-Bird bowel (BM) movement is the main problem with enjoying  
pet birds.-Sensor' **determines** BM occurred. Then the gate opens  
automatically. Gate only closes (slowly and gently) after the movement  
sensor **determines** the bird has come back inside.-BM Sensor can be  
triggered by:

1. Bird BM...

...analyzer.

2. Bird must have BM over any or part of bird floor cage. Sensor **determines** BM via, A. (greater) vibration (than the norm) from the BM drop. B. presence of...

...alone (while having a party))] // ANALYZER [] // BA [times pets i.e. coming thru door] // CART [ **attached** to collar; emits scent (to attract/repel bugs/other dogs)] // EDUC [teaches pet to wait...

...on/made more difficult, in stages as [pet learns/becomes accustomed] / [additional cleaning needed]. Can **attach** on other [previously patented] cleaning/ access restriction device(s). OTHER ENTITIES SEEKING 'ACCESS':  
. Clean Mobile...

...AREA AROUND DOOR RAKES THE FUR/CLEANS PAWS: Make the actual door made out of' **attached** to with some kind of cleaning device(s), door mats, plastic covered with cloth(or...

**32/3,K/9 (Item 3 from file: 349)**

DIALOG(R)File 349:PCT FULLTEXT

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00428814 \*\*Image available\*\*

**SYSTEM AND METHOD FOR DELIVERING FINANCIAL SERVICES  
SYSTEME ET PROCEDE OFFRANT DES SERVICES FINANCIERS**

Patent Applicant/Assignee:

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MARKARIAN Grigor,

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Priority Application: US 9629209 19961031; US 97908413 19970807

Designated States:

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AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE GH HU  
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Publication Language: English

Fulltext Word Count: 19542

Fulltext Availability:  
Detailed Description  
Claims

#### Detailed Description

... a login message to the remote device and instantiates a profile transaction executor component to **authenticate** a customer. A navigation shell component notifies the remote device of the list of 6...3C.

Figs. 5A to 5D are flow charts depicting operations of the delivery system in **authenticating** a customer.

Figs. 6A to 6C are partial block diagrams of the delivery system depicting...the front door man component 51 adds a session security token to outgoing messages and **verifies** the session security token for incoming messages.

1 5 For sessions with a CAUCASST 16...control devices via an acquisition mechanism.

Upon request, the session device manager component 63 first **determines** the availability and capability of the acquired device and returns the device ...client. The session device manager component 63 queries the peripheral device manager component 62 to **determine** devices available to the system, queries the delivery capabilities to **determine** the available remote devices and creates instances of those devices for use by session components...The crypto man component 75 manages secret keys associated with external service providers and performs **authentication** of public key

1 7 certificates. The crypto man component 75 holds security keys for...and status indicator. The status monitor 1 5 agent monitors status instrument variables and events, **determines** if an external system management product needs to be notified, and sends any important @4...the initial welcome page to the customer and collects customer identity and preference information. After **determining** the issuer of the customer ID and possibly **authenticating** the customer, the welcome mat component 81 instantiates several customer services objects to hold information...

...for issuer. The welcome mat component 81 instantiates a profile transaction executor component 91 to **authenticate** the customer and get the customer's relationships or customer profile. This process typically involves...

...customer data micro app.

The welcome mat component 81 may do four things for customer **authentication** based on acquirer rules and the type of customer ID, such as public key certificate, ATM card, **credit card**, on-us, or off-us. The welcome mat

2 1

component 81 may provide immediate local **authentication** using public

key

certificates or may provide immediate **authentication** with the issuer, waiting for a response. The welcome mat component 81 may also provide background **authentication** with the issuer while going on to the navigation shell component 82 or may defer **authentication** to the first transaction. With deferred **authentication**, the welcome mat component 81 may need to instantiate a default customer relationship component 113 and a default set of product types, such as checking, savings, or **credit card**. If a rule broker component 121 does not have a registered issuer for the card...

...a customer ID component 111 is

10 instantiated and marked invalid, further **authentication** of the customer is skipped, and a navigation shell component 82 for invalid customers is...executor component 91 validates properties of data obtained from mini-app dialog components 83 to **determine** whether the required information needed to do the transaction exists. If the data is missing...card information, if a card was used, including the type of card, such as ATM, **credit card**, SmartCard, and tracks present and track data. The customer ID component 111 knows...

...instance, business 10 code, financial institution identifier, and issuer type, such as bank card, **credit card**, or other third party card. The issuer component 112 knows the PIN length supported...and the navigation schemes supported. The issuer component 112 knows when or how to **authenticate** customer, such as by local validation of public key certificate, immediate to issuer, background to...component 122, and welcome mat component 81.

The session component 132 sends touch point **attached** notification to each of the components and supports registration of additional session components that need...presented with a consistent and familiar interface regardless of the remote device used.

## B. Customer **Authentication**

An example of the process of **authenticating** a customer will now be described with reference to Figs. 5A to 5D and Figs...

...step E22, the touch point interface component 41 forwards the message to the appropriate session **bubble** based on the session ID in the session cookie. At step E3, the front door man...the welcome mat 10 component 81 instantiates the profile transaction executor component 91 for **authenticating** the customer and then passes the CIN and encrypted PIN to the transaction executor component...abstracted.

The delivery system 12 can easily support multi-media. HTML has wellknown means for **embedding** and referencing a wide range of media types, for instance graphics, sounds, and movies. The...session bubble starts up normally at the CAT 16. When the welcome mat component 81 **determines** that this customer is off-region, the welcome mat component 81 makes a connection to...

...1 and issuer components 112 on the NetCAT server 200. After NetCAT server 200 **authenticates** the customer, with its own external service provider, the NetCAT server 200 starts up a...rule "answerer" may be

installed or replaced independently from components which use that data to **determine** answers to rule questions.

In general, a business rule is a statement of policy driven... authorities, the rule engine has no specific knowledge of rules or applications. The rule engine **determines** answers for rules and is used by the rule broker component 121 and calls the...contains specific rules for dispense amounts and ask the peripheral device manager component 62 to **determine** what denominations are available.

10

B, Example Two, Maximum PIC Retries?

As another example...

Claim

... man component for adding security tokens to messages sent to the remote device and for **verifying** security tokens on messages received from the remote device.

8 The system as set forth...

...forth in claim 9, wherein the welcome mat component instantiates a profile transaction executor to **authenticate** the customer.

12 The system as set forth in claim 9, wherein the welcome mat...the welcome mat component a profile transaction executor component, the profile transaction executor component for **authenticating** a customer.  
59

43 The method as set forth in claim 40, further comprising a...tokens on messages sent to the remote device with the front door man component, and **verifying** with the front door man component the security tokens on messages received from the remote...

**32/3,K/10 (Item 1 from file: 654)**

DIALOG(R)File 654:US PAT.FULL.

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7961498

**UTILITY**

**System and method for delivering financial services**

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Assignee: Citicorp Development Center, Inc., (02), Cincinnati, OH, US

Examiner: Weisberger, Richard C

Legal Representative: Marcou, George T.; King & Spalding LLP

	Publication Number	Kind	Date	Application Number	Filing Date	
Main Patent	US 7502752	B1	20090310	US 2000671422	20000927	
Continuation	US 5933816	A	19990803	US 97908413	19970807	
CIP	US 7249344	A		US 99323210	19990601	

US Term Extension: 1597 days

Fulltext Word Count: 27783

Description of the Drawings:

...0042] are flow charts depicting operations of the delivery system in **authenticating** a customer...

Description of the Invention:

...a logon message to the remote device and instantiates a profile transaction executor component to **authenticate** a customer. A navigation shell component notifies the remote device of the list of available...the events. In addition, the status monitor agent can periodically poll the managed component to **determine** if a local action is required...the front door man component 51 adds a session security token to outgoing messages and **verifies** the session security token for incoming messages. For sessions with a CAT/CASST 16, the...control devices via an acquisition mechanism. Upon request, the session device manager component 63 first **determines** the availability and capability of the acquired device and returns the device reference to the client. The session device manager component 63 queries the peripheral device manager component 62 to **determine** devices available to the system, queries the delivery capabilities to **determine** the available remote devices and creates instances of those devices for use by session components...The crypto man component 75 manages secret keys associated with external service providers and performs **authentication** of public key certificates. The crypto man component 75 holds security keys for each external...variable, counter, and status indicator. The status monitor agent monitors status instrument variables and events, **determines** if an external system management product needs to be notified, and sends any important "alarms ...the initial wome page to the customer and collects customer identity and preference information. After **determining** the issuer of the customer ID and possibly **authenticating** the customer, the wome mat component 81 instantiates several customer services objects to hold information...

...for issuer. The wome mat component 81 instantiates a profile transaction executor component 91 to **authenticate** the customer and ...0090] The wome mat component 81 may do four things for customer **authentication** based on acquirer rules and the type of customer ID, such as public key certificate, ATM card, **credit card**, on-us, or off-us. The wome mat component 81 may provide immediate local **authentication** using public key certificates or may provide immediate **authentication** with the issuer, waiting for a response. The wome mat component 81 may also provide background authentication with the issuer while going on to the navigation shell component 82 or may defer **authentication** to the first transaction. With deferred **authentication**, the wome mat component 81 may need to instantiate a default customer relationship component 113 and a default set of product types, such as checking, savings, or **credit card**. If a rule broker component 121 does not have a registered issuer for the card/CIN prefix number, a customer ID component 111 is instantiated and marked invalid, further **authentication** of the customer is skipped, and a navigation shell component 82 for invalid customers is ...executor component 91 validates properties of data obtained from mini-app dialog components 83 to **determine** whether the required



information needed to do the transaction exists. If the data is missing  
...card information, if a card was used, including the type of card, such  
as ATM, **credit card**, SmartCard, and tracks present and track data.  
The customer ID component 111 knows the tier...identity, for instance,  
business code, financial institution identifier, and issuer type, such as  
bank card, **credit card**, or other third party card. The issuer  
component 112 knows the PIN length supported and...

...supported, and the navigation schemes supported. The issuer component  
112 knows when or how to **authenticate** customer, such as by local  
validation of public key certificate, immediate to issuer, background to  
...man component 122, and wome mat component 81. The session component  
132 sends touch point **attached** notification to each of the components  
and supports registration of additional session components that need[0121]  
B. Customer **Authentication**

[...  
...0122] An example of the process of **authenticating** a customer will now  
be described with reference to FIGS. 5A to 5D and FIGS...

...step E22, the touch point interface component 41 forwards the message to  
the appropriate session **bubble based** on the session ID in the session  
cookie. At step E3, the front door man...step E28, the wome mat component  
81 instantiates the profile transaction executor component 91 for  
**authenticating** the customer and then passes the CIN and encrypted PIN to  
the transaction executor component...The delivery system 12 can easily  
support multi-media. HTML has well-known means for **embedding** and  
referencing a wide range of media types, for instance graphics, sounds,  
and movies. The...session bubble starts up normally at the CAT 16. When  
the wome mat component 81 **determines** that this customer is off-region,  
the wome mat component 81 makes a connection to...

...component 111 and issuer components 112 on the NetCAT server 200. After  
NetCAT server 200 **authenticates** the customer, with its own external  
service provider, the NetCAT server 200 starts up a...rule "answerer" may  
be installed or replaced independently from components which use that  
data to **determine** answers to rule questions...authorities, the rule  
engine has no specific knowledge of rules or applications. The rule  
engine **determines** answers for rules and is used by the rule broker  
component 121 and calls the...contains specific rules for dispense  
amounts and ask the peripheral device manager component 62 to **determine**  
what denominations are available...heterogeneous environment. Another  
problem with current attempts to manage and monitor devices is that they  
**attach** the issue of the communications to the central node, such that  
the design of local...controller. The status monitor agent 308 monitors  
managed components and their instrumentation variables and events,  
**determines** if a local action is required or an external system  
management product, such as system...cass2 response to the status  
monitoring agent 308. At S32, the status monitoring agent 308 **determines**  
the true cash value and sends an Alarm (immediate replenishment needed)  
request to the management...remote system management protocol format, and  
supporting secure access to a management server, such as **authentication**  
, privacy, and non-replication...

DIALOG(R)File 654:US PAT.FULL.  
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750)249 \*\*IMAGE Available

#### UTILITY

#### Apparatus, System, Method and Computer Program Product for Pre-Paid Long Distance Telecommunications and Charitable Fee Sharing

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CIP	PENDING			US 2006636087	20061207
Provisional				US 60-748584	20051209

Fulltext Word Count: 16154

#### Description of the Invention:

...user a personal calling card number (e.g., a personal identification number (PIN), or an **authorization** code). A PIN or **authorization** code may include, e.g., a seven to fourteen (7-14) digit exclusive number. The ...0024] Passage of the Telecommunications Act of 1996, **authorizing** competition in the local phone service market, permitted CLECs (see FIG. 2, 104c, for example...In an exemplary embodiment, a button may be provided on the phone to indicate user **authorization** of use of value. In an exemplary embodiment, the value may be stored in a prompting the user to **authorize** use of the value. According to an exemplary embodiment, user **authorization** may include, e.g., but not limited to, a validation; entry of a password; entry...

...may include: prompting the user to replenish the value upon the value reaching a pre-**determined** threshold...account; a debit card account; a checking account; a money market account; and/or a **credit card** account...further include: prompting the user to replenish the value upon the value reaching a pre-**determined** threshold...one of: a savings account; a debit card account; a checking account; and/or a **credit card** account...graphical user interface (GUI) element, a button, a depressible spring-based button, a compressible plastic **bubble based** button, a touch screen, a pen based interface, a GUI input field, button, element, etc...feature codes to notify the switch of the originating end of the call to display **authenticating** information to the pre-paid service provider switch, such as, e.g., but not limited...0090] In an exemplary embodiment, a method may include: prompting the user to **authorize** use of the value. According to an exemplary embodiment, user **authorization** may include, e.g., but not limited to, a validation; entry of a password; entry...the user, place a transaction, making a purchase, for example, without needing to provide their **credit** card number over the telephone. Much like an EasyPass, after a user has set up the...embodiment, each time the value of a customer user's account may hit a pre-**determined** threshold level, then the user may press the LDS

auto-key to connect to the...account has been depleted to a zero balance (due for example to expiration of a **credit card** being used for automatic replenishment), then operation may be inhibited and diagram 600 may end...have been captured, the user may be allowed to use a value of promotional minutes **determined** by the provider of the phone device 402 that may have been pre-provisioned on...0122] 1. Exemplary functions may include accepting and charging users account via **credit card** ...T1 or integrated services digital network (ISDN) primary rate interface (PRI). An ISP can also **attach** to the Internet by means of a pipe or dedicated communications facility. A pipe can...it is appreciated that throughout the specification discussions utilizing terms such as "processing," "computing," "calculating," " **determining** ," or the like, refer to the action and/or processes of a computer or computing...or other indication, etc., which may be used to any one or more of initiate, **authorize** , **authenticate** , and/or validate, or the like, a fee sharing arrangement. According to an exemplary embodiment...

Exemplary or Independent Claim(s):

Non-exemplary or Dependent Claim(s):

...further comprising:

- prompting the user to replenish the value upon said value reaching a pre- **determined** threshold...market account;
- a savings account;
- a debit card account;
- a checking account; and/or
- a **credit card** account...further comprises:
  - prompting the user to replenish the value upon said value reaching a pre- **determined** threshold...market account;
  - a savings account;
  - a debit card account;
  - a checking account; and/or
  - a **credit card** account

37. The method according to claim 29, further comprising:  
prompting the user to **authorize** use of said value...

...38. The method according to claim 37, wherein said **authorizing** comprises at least one of:  
prompting the user to provide at least one of a...

**32/3,K/12 (Item 3 from file: 654)**

DIALOG(R)File 654:US PAT.FULL.

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7275534

#### **UTILITY**

#### **Delivering financial services to remote devices**

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Continuation	US 5933816			US 97908413	19970807
Provisional				US 60-29209	19961031

Fulltext Word Count: 17920

#### Description of the Invention:

...a logon message to the remote device and instantiates a profile transaction executor component to **authenticate** a customer. A navigation shell component notifies the remote device of the list of available...  
0030] FIGS. 5A to 5D are flow charts depicting operations of the delivery system in **authenticating** a customer...the front door man component 51 adds a session security token to outgoing messages and **verifies** the session security token for incoming messages. For sessions with a CAT/CASST 16, the...control devices via an acquisition mechanism. Upon request, the session device manager component 63 first **determines** the availability and capability of the acquired device and returns the device reference to the client. The session device manager component 63 queries the peripheral device manager component 62 to **determine** devices available to the system, queries the delivery capabilities to **determine** the available remote devices and creates instances of those devices for use by session components...The crypto man component 75 manages secret keys associated with external service providers and performs **authentication** of public key certificates. The crypto man component 75 holds security keys for each external...variable, counter, and status indicator. The status monitor agent monitors status instrument variables and events, **determines** if an external system management product needs to be notified, and sends any important "alarms...the initial welcome page to the customer and collects customer identity and preference information. After **determining** the issuer of the customer ID and possibly **authenticating** the customer, the welcome mat component 81 instantiates several customer services objects to hold information...for issuer. The welcome mat component 81 instantiates a profile transaction executor component 91 to **authenticate** the customer and get the customer's relationships or customer profile. This process typically involves0067] The welcome mat component 81 may do four things for customer **authentication** based on acquirer rules and the type of customer ID, such as public key certificate, ATM card, **credit card**, on-us, or off-us. The welcome mat component 81 may provide immediate local **authentication** using public key certificates or may provide immediate **authentication** with the issuer, waiting for a response. The welcome mat component 81 may also provide background **authentication** with the issuer while going on to the navigation shell component 82 or may defer **authentication** to the first transaction. With deferred **authentication**, the welcome mat component 81 may need to instantiate a

default customer relationship component 113 and a default set of product types, such as checking, savings, or **credit card**. If a rule broker component 121 does not have a registered issuer for the card/CIN prefix number, a customer ID component 111 is instantiated and marked invalid, further **authentication** of the customer is skipped, and a navigation shell component 82 for invalid customers is...executor component 91 validates properties of data obtained from mini-app dialog components 83 to **determine** whether the required information needed to do the transaction exists. If the data is missing...card information, if a card was used, including the type of card, such as ATM, **credit card**, SmartCard, and tracks present and track data. The customer ID component 111 knows the tier...identity, for instance, business code, financial institution identifier, and issuer type, such as bank card, **credit card**, or other third party card. The issuer component 112 knows the PIN length supported and...

...supported, and the navigation schemes supported. The issuer component 112 knows when or how to **authenticate** customer, such as by local validation of public key certificate, immediate to issuer, background to ...man component 122, and welcome mat component 81. The session component 132 sends touch point **attached** notification to each of the components and supports registration of additional session components that need...  
0098] B. Customer **Authentication**

[...

...0099] An example of the process of **authenticating** a customer will now be described with reference to FIGS. 5A to 5D and FIGS...

...step E22, the touch point interface component 41 forwards the message to the appropriate session **bubble** based on the session ID in the session cookie. At step E3, the front door man...step E28, the welcome mat component 81 instantiates the profile transaction executor component 91 for **authenticating** the customer and then passes the CIN and encrypted PIN to the transaction executor component...The delivery system 12 can easily support multi-media. HTML has well-known means for **embedding** and referencing a wide range of media types, for instance graphics, sounds, and movies. The...session bubble starts up normally at the CAT 16. When the welcome mat component 81 **determines** that this customer is off-region, the welcome mat component 81 makes a connection to...component 111 and issuer components 112 on the NetCAT server 200. After NetCAT server 200 **authenticates** the customer, with its own external service provider, the NetCAT server 200 starts up a...rule "answerer" may be installed or replaced independently from components which use that data to **determine** answers to rule questions...authorities, the rule engine has no specific knowledge of rules or applications. The rule engine **determines** answers for rules and is used by the rule broker component 121 and calls the...contains specific rules for dispense amounts and ask the peripheral device manager component 62 to **determine** what denominations are available...

32/3,K/13 (Item 4 from file: 654)

DIALOG(R)File 654:US PAT.FULL.

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7266612

## UTILITY

### Systems and methods for secure transaction management and electronic rights protection

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	Publication Number	Kind	Date	Application Number	Filing Date
Main Patent	US 20070245403	A1	20071018	US 2007807342	20070525
Continuation	PENDING			US 200590982	20050324
Continuation	US 7133845			US 99328668	19990609
Continuation	US 5982891			US 97964333	19971104
Continuation	ABANDONED			US 95388107	19950213

Fulltext Word Count: 180935

#### Abstract:

...with the present invention help to ensure that information is accessed and used only in **authorized** ways, and maintain the integrity, availability, and/or confidentiality of the information. Such electronic appliances...

#### Description of the Invention:

...technologies that help to ensure that information is accessed and/or otherwise used only in **authorized** ways, and maintains the integrity, availability, and/or confidentiality of such information and processes related...to control the use of proprietary information. Content providers often need to limit use to **authorized** activities and amounts. Participants in a business model involving, for example, provision of movies and...

...discs may include actors, directors, script and other writers, musicians, studios, publishers, distributors, retailers, advertisers, **credit card** services, and content end-users. These participants need the ability to embody their range of...distributors have devised a number of limited function rights protection mechanisms to protect their rights.

**Authorization** passwords and protocols, license servers, "lock/unlock" distribution methods, and non-electronic contractual limitations imposed ...in electronic information. It can, for example, help ensure that information is used only in **authorized** ways...information-the present invention can, for example, help ensure that data is used only in **authorized** ways...[0034] (b) ensure that content is used only in **authorized** ways; and...all content creators, providers, and users to employ the same electronic rights protection solution. Under **authorized** circumstances, the participants can freely exchange content and associated content control sets. This means that...can enable control of content use such as displaying, encrypting, decrypting, printing, copying, saving, extracting, **embedding**, distributing, auditing usage, etc. The secure subsystem in the preferred embodiment comprises one or

more...0117] (7) Secure communications means employing **authentication**, digital ...encrypted transmissions. The secure subsystems at said user nodes utilize a protocol that establishes and **authenticates** each node's and/or participant's identity, and establishes one or more secure host... parties can trust that such information cannot be received by anyone other than the intended, **authorized**, party(ies) because it is encrypted such that only an **authorized** party, or her agents, can decrypt it. Such information may also be derived through a...s usage control information, for example, provide for property content and/or appliance related: usage **authorization**, usage auditing (which may include audit reduction), usage billing, usage payment, privacy filtering, reporting, and...by certain VDE participant control information that assesses whether certain other electronic terms and conditions **attached** to content and/or submitted by another party are acceptable (do not violate acceptable control...e.g. in the form of a method) might specify that sufficient credit from an **authorized** source must be **confirmed** as available. It might further require certain one or more load modules execute as processes...such as RSA to protect communications and to provide the benefits of digital signature and **authentication** to securely bind together the nodes of a VDE arrangement, secure processing of important transaction...upon historical usage variables, and (d) reporting to users in a manner enabling users to **determine** whether a certain item was acquired, or acquired within a certain time period (without requiring...

...that a content and/or appliance provider and/or controller of an administrative activity can **determine** whether a certain activity has occurred at some point, or during a certain period, in...

...past (for example, certain use of a commercial electronic content product and/or appliance). Such **determinations** can then be used as part of pricing and/or control strategies of a content...secure subsystem (such as the presence of a sufficient quantity of financial credit from an **authorized** credit provider), at least some travelling object content may be used by a receiving party...of a VDE API and/or a transaction management (for example, ROS based) programming language **embeds** VDE "awareness" into commercial or internal software (application programs, games, etc.) so that VDE user...Such control information can continue to manage usage of container content if the container is " **embedded** " into another VDE managed object, such as an object which contains plural **embedded** VDE containers, each of which contains content derived (extracted) from a different source...

...price for electronic documents that the user is willing to pay without prior express user **authorization**, and the user establishing the character of metering information he or she is willing to...Handlers in a pathway of handling of content control information, to the extent each is **authorized**, can establish, modify, and/or contribute to, permission, auditing, payment, and reporting control information related...content container is "evolving" as it securely (e.g. communicated in encrypted form and using **authentication** and digital signing techniques) passes, at least in part, to a new participant's VDE...Proposed control information is used to an extent allowed by senior control information and as **determined** by any negotiation trade-offs that satisfy priorities stipulated by each set (the received set...

...to content providers. Such control information and/or overall control

models may be applied, as **determined** or allowed by control information, in differing manners to different participants in a pathway of...0203]  
(d) **append** extracted content to a pre-existing VDE content container object and **attach** associated control information-in these cases, user added information may be secured, e.g., encrypted...code such as load modules) for each of various of said portions by, for example, **embedding** some or all of such portions individually as VDE content container objects within an overall VDE content container and/or **embedding** some or all of such portions directly into a VDE content container. In the latter...

...such portions based upon said portions original control information requirements before aggregation. Each of such **embedded** VDE content containers may have its own control information in the form of one or... of the secure subsystem and/or VDE controlled content by uncovering one or more keys). **Determining** whether irregular patterns (e.g. unusually high demand) of content usage, or requests for delivery...

...of related users whose aggregate pattern of usage is suspicious) may also be useful in **determining** whether security at such one or ...usage information this information can be provided to content providers or other parties, through secure, **authenticated** encrypted communication to the VDE installation secure subsystems. Clearinghouse processing means would normally be connected...available only under certain strict circumstances, such as a court order (which may itself require **authorization** through the use of a court controlled VDE installation that may be required to securely...

...0214] support fingerprinting,(also known as watermarking) for **embedding** in content such that when content protected under the present invention is released in clear...

...the user and/or VDE installation responsible for transforming the content into clear form is **embedded** into the released content. Fingerprinting is useful in providing an ability to identify who extracted...

...its contents. Since the identity of the user and/or other identifying information may be **embedded** in an obscure or generally concealed manner, in VDE container content and/or control information, potential copyright violators may be deterred from unauthorized extraction or copying. Fingerprinting normally is **embedded** into unencrypted electronic content or control information, though it can be **embedded** into encrypted content and later placed in unencrypted content in a secure VDE installation sub...fingerprint information can be inserted, and then the content can be re-encrypted for transmission. **Embedding** identification information of the intended recipient user and/or VDE installation into content as it...

...the security of a VDE installation or the delivered content. If a party produces an **authorized** clear form copy of VDE controlled content, including making unauthorized copies of an **authorized** clear form copy, fingerprint information would point back to that individual and/or his or ...

...parties electronic information. Fingerprint information identifying a receiving party and/or VDE installation can be **embedded** into a VDE



object before, or during, decryption, replication, or communication of VDE content objects...0215] provide smart object agents that can carry requests, data, and/or methods, including budgets, **authorizations**, credit or currency, and content. For example, smart objects may travel to and/or from...or resources such as information resources, language or format translation, processing, credit (or additional credit) **authorization**, etc. Resources include reference databases, networks, high powered or specialized computing resources (the smart object... methods and/or assemblies. This feature preferably employs artificial intelligence capabilities to analyze and automatically **determine**, and/or assist one or more users to **determine**, the proper order and relationship between the library elements corresponding to the chosen methods and...to the extent commercially practical, to be as tamper resistant as reasonable. As another example, **embedding** a VDE hardware module into an I/O peripheral may have certain advantages from the...key and/or budget refresh information to the clearinghouse, which information can be necessary to **authorize** use of the clearinghouse's credit for usage of the provider's content and which...

...time aged keys has a similar impact as failing to refresh budgets or time-aged **authorizations**.

[...easily retrieved and/or analyzed. Because of the VDE security, including use of effective encryption, **authentication**, digital signaturing, and secure database structures, the records contained within a VDE card arrangement may...card, in said docking station, in an associated electronic appliance, and/or other device operatively **attached** thereto, and/or remotely, such as at a remote server site. A card's data0220] support certification processes that ensure **authorized** interoperability between various VDE installations so as to prevent VDE arrangements and/or installations that...

...as well as VDE users. Certification data can also serve as information that contributes to **determining** the decommissioning or other change related to VDE sites...provided in secure form using VDE installation secure sub-system managed communications (including, for example, **authenticating** the deliverer of at least in part encrypted control information) between such not directly participating...securely utilized, within a secure subsystem. Since VDE also employs secure (e.g. encrypted and **authenticated**) communications when passing information ... communications, and access to VDE node (VDE installation) secure subsystems. Physical facility and user identity **authentication** security procedures may be used instead of hardware SPUs at certain nodes, such as at...within the security limitations of a given VDE security implementation design). This control information can **determine**, for example...0344] FIGS. 57A and 57B show examples of EXTRACT and **EMBED** methods...an example of how different keys may be generated using a key convolution process to **determine** a "true" key...program, she cannot watch or copy the program unless she has "rules and controls" that **authorize** use of the program. She can use the program only as permitted by the "rules...means to be delivered separately. For example, the content user 112 may have a virtual "**credit card**" that extends credit (up to a certain limit) to pay for usage of any content...

...can take place at the user's site without requiring any "online" connection or further **authorization**. This invention can be used to help

securely protect the virtual " **credit card** " against unauthorized use 0412] The "events process" 402 detects things that happen ("events") and **determines** which of those "events" need action by the other "processes." The "events" may include, for...0420] Billing process 406 **determines** how much to charge for events. It records and reports payment information...510. SPU "firmware" 508 in this example is "software" such as a "computer program(s)" " **embedded** " within chip 504. Firmware 508 makes the hardware 506 work. Hardware 506 preferably contains a...

...0436] The particular context in which SPU 500 is being used will **determine** how much processing capabilities SPU 500 should have SPU hardware 506, in ...0445] a "smart" **credit card** .

[...604 are "event driven." Rather than repeatedly examining the state of electronic appliance 600 to **determine** whether a condition has arisen, the "rights operating system functions" 604 may respond directly to...is also used for managing encrypted and/or otherwise secured communication (such as by employing **authentication** and/or error-correction validation of information). SPU 500 may also perform secure data management...tampering is detected, further modules providing additional security protections such as requiring password or other **authentication** to operate; and the like. In addition, further layers of metal may be added to...

...addressing and refresh circuitry that "shuffles" the location of bits to complicate efforts to electrically **determine** the value of memory locations. These and other techniques may contribute to the security of ...may be compared to a controlled RTC 528 output time under control of the party **authorized** to be "senior" and controlling. In the event of a discrepancy, appropriate action may be...is preferable that an extremely secure encryption/decryption technique be used as an aspect of **authenticating** the identity of electronic appliances 600 that are establishing a communication channel and securing any...performing pattern matching functions. One of the functions SPU 500 may perform is to validate/ **authenticate** VDE objects 300 and other items. Validation/ **authentication** often involves comparing long data strings to **determine** whether they compare in a predetermined way. In addition, certain forms of usage (such as...500. Such sequences may be used, for example, in private headers to frustrate efforts to **determine** an encryption key through cryptanalysis...dispatcher) may be loaded in ROM 532 along with additional load modules that have been **determined** to be required for specific installations or applications...

Exemplary or Independent Claim(s):

Non-exemplary or Dependent Claim(s):

...selected from the group consisting of: a condition relating to availability of credit from an **authorized** source; a condition relating to execution of one or more load modules within a predefined  
...uses is selected from the group consisting of: displaying, encrypting, decrypting, printing, copying, saving, extracting, **embedding** , distributing, and auditing usage of the piece of electronic content...and/or prohibited uses is selected from the group consisting of: displaying, printing, saving, extracting, **embedding** , and auditing usage of the piece of electronic content...  
selected from the group consisting of: a condition relating to availability of credit from an **authorized** source; a condition

relating to execution of one or more load modules within a predefined  
 ...of the permitted uses is selected from the group consisting of:  
 displaying, printing, saving, extracting, **embedding**, and auditing  
 usage of the piece of electronic content...selected from the group  
 consisting of: a condition relating to availability of credit from an  
**authorized** source; a condition relating to execution of one or more  
 load modules within a predefined...

...and/or prohibited uses is selected from the group consisting of:  
 displaying, printing, saving, extracting, **embedding**, and auditing  
 usage of the piece of electronic content...selected from the group  
 consisting of: a condition relating to availability of credit from an  
**authorized** source; a condition relating to execution of one or more  
 load modules within a predefined...and/or prohibited usages is  
 selected from the group consisting of: displaying, printing, saving,  
 extracting, **embedding**, and auditing usage of the piece of  
 electronic content...selected from the group consisting of: a  
 condition relating to availability of credit from an **authorized**  
 source; a condition relating to execution of one or more load modules  
 within a predefined...

...and/or prohibited usages is selected from the group consisting of:  
 displaying, printing, saving, extracting, **embedding**, and auditing  
 usage of the piece of electronic content...selected from the group  
 consisting of: a condition relating to availability of credit from an  
**authorized** source; a condition relating to execution of one or more  
 load modules within a predefined...

...of the permitted uses is selected from the group consisting of:  
 displaying, printing, saving, extracting, **embedding**, and auditing  
 usage of the piece of electronic content...selected from the group  
 consisting of: a condition relating to availability of credit from an  
**authorized** source; a condition relating to execution of one or more  
 load modules within a predefined...

...and/or prohibited usages is selected from the group consisting of:  
 displaying, printing, saving, extracting, **embedding**, and auditing  
 usage of the piece of electronic content...selected from the group  
 consisting of: a condition relating to availability of credit from an  
**authorized** source; a condition relating to execution of one or more  
 load modules within a predefined...

...of the permitted uses is selected from the group consisting of:  
 displaying, printing, saving, extracting, **embedding**, and auditing  
 usage of the piece of electronic content.

**32/3,K/14 (Item 5 from file: 654)**

DIALOG(R)File 654:US PAT.FULL.

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7183042 \*\*IMAGE Available

#### **UTILITY**

#### **Methods and Devices Employing Content Identifiers**

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	Publication Number	Kind	Date	Application Number	Filing Date
Main Patent	US 20070192872	A1	20070816	US 2007671888	20070206
Division	US 7174031			US 2005132031	20050517
Division	US 6947571			US 2000571422	20000515
CIP	US 6681028			US 99314648	19990519
CIP	US 6650761			US 99342688	19990629
CIP	US 6311214			US 99342689	19990629
CIP	ABANDONED			US 99342971	19990629
CIP	ABANDONED			US 99343101	19990629
CIP	ABANDONED			US 99343104	19990629
CIP	PENDING			US 2000531076	20000318
CIP	US 7206820			US 2000547664	20000412
CIP	ABANDONED			US 2000552998	20000419
Provisional			US 60-141468		19990629
Provisional			US 60-151586		19990830
Provisional			US 60-158015		19991006
Provisional			US 60-163332		19991103
Provisional			US 60-164619		19991110

Fulltext Word Count: 51175

#### Summary of the Invention:

...0017] "Bedoop." That might be the same sound when that same someone places their **credit card** in front of their desktop camera. Instantly, the product displayed on the web page is...

...a secure purchase link is initiated, transmitting all requisite information to the vendor. Twist the **credit card** clockwise and the purchaser chooses overnight delivery...and the information more visually overt and/or pre-existing (i.e., not "pro-actively" **embedded**, or it might not even be "digital," per se). Different implementation considerations **attach** to these variants. Likewise, though the bulk of this disclosure concentrates on objects which have some form of digital message **attached** thereto, some aspects of the technology may apply to objects which have no such thing...0031] According to another aspect, a method of **determining** consumer response to print advertising comprises: (a) encoding a first print advertisement with first data...

...with said advertisements; (d) monitoring linking traffic due to each of said identifiers to thereby **determine** consumer response to the advertisements submitting at least some of said decoded data to a remote computer; and (e) **determining** at the remote computer whether a prize should be awarded in response to submission of...

#### Description of the Invention:

...0057] FIG. 16 shows use of binocular processing to **determine** certain object attributes...computer 114 detects the presence of Bedoop data and successfully decodes same, it issues a **confirmation** tone ("be-doop") from a speaker or other audio transducer 122. The computer then adds...the sensor until the decoder succeeds in decoding the

steganographically encoded data and issues a **confirming** "Bedoop" audio signal...0096] Characteristic markings on the object (as discussed below in connection with **determining** object orientation) can also be sensed and used in locating the object...

...0098] The next step in the decoding process, **determining** orientation of the Bedoop data, can likewise be discerned by reference to visual clues. For...

...graticule data, or other calibration data, steganographically encoded with the Bedoop data to aid in **determining** orientation. Others can employ overt markings, either placed for that sole purpose (e.g. ... 0100] (In some arrangements, the step of **determining** the orientation can be omitted. Business card readers, for example, produce data that is reliably...rotational state of the image data can be ignored). In still other embodiments, the orientation- **determining** step can be omitted because the decoding can readily proceed without this information. For example...e.g., error detecting codes can be included in the Bedoop payload and checked to **confirm** correspondence with the other Bedoop payload. Likewise, the system can **confirm** that the same Bedoop data is present in different tiled excerpts within the image data...used in identifying the server computer that will respond to the Bedoop data. The UID **determines** precisely what response should be provided...and the web-display is then customized, the address of the web site is typically **determined** by the card vendor. But this need not be the case. Likewise, the card need...

...Bedoop data on the card can be similarly customized. Instead of leading to a site **determined** by the card vendor, the data can lead to the sender's personal web page 0145] For security purposes, the access code is not **embedded** using standard Bedoop techniques. Instead, a non-standard format (typically steganographic) is employed. The **embedding** of this access code can span the entire face of the card, or can be...

...door lock, the candidate presents the badge to an optical sensor device, which reads the **embedded** building access code, checks it for authenticity and, if the candidate arrived within the permitted...and optionally checking the door log to see that a person of that name was **authorized** to enter and did so), the security guard can let the candidate pass...over the web. The user can print an access ticket that has an entry code **embedded** therein. On arriving at the theater or event, the user presents the ticket to an optical scanning device, which decodes the entry code, checks the validity of same, **authorizes** the entry, and marks that entry code as having been used (preventing multiple uses of...applications, or without such aids), captures optical data, and decodes same to extract the steganographically- **embedded** data hidden therein. The access control system then checks whether the badge ID discerned from...of a different individual. If the photo is swapped, the proximity system ID and the **embedded** photo data will not match, flagging an unauthorized attempted access...The basic physics and very low level analog electronic operation of inkjet printers (sometimes termed **bubble** -jet printers) are ideally suited to support very-light-tint background digital watermarking on any...0164] In another example, the UID field serves an **authentication** purpose, e.g., to **verify** that the printed medium actually was printed at a particular

place, or by a particular...label can be provided and encoded) with electronic payment information, such as the customer's **credit card number**, or the number of a debit account maintained by the coffee merchant for that...

...security reasons, the system may be arranged so that the mug cannot be used to **authorize** more than, say \$5 of coffee drink purchases per day ...0187] On sensing a Bedoop-encoded object, the elevator can **determine** -among other data-the floor on which the wearer's office is located. The system...only in response to Bedoop data (which may thus be regarded as a form of **authentication** or password data...Some users may carry several differently-encoded cards, each with a different level of access **authorization** (e.g., with different UIDs). Thus, some cards may access a biographical page without any...in the database record, the card giver can use a special card that conveys write- **authorization** privileges. This special card can be a specially encoded version of the business card, or...0207] A Bedoop system can **determine** the scale state, rotation state, X-Y offset, and differential scale state, of an object by reference to **embedded** calibration data, or other techniques. If the scan device operates at a suitably high frame...the Bedoop data in a known manner. (Such bits may convey, e.g., profile data, **credit card** data, etc.) The appended data field, in turn, may include one or more bits signaling...of a Bedoop sensor, a user can request renewal of the driver's license, and **authorize** payment of the corresponding fee...the Department of Motor vehicles, another government entity, a private entity, or by the traveler), **authenticating** the operation by presenting Bedoop data encoded on the license, and obtain information that the person has pre-approved for release in response to such **authorized** access. This information can include e-mail account and password information. Using this information, the

Exemplary or Independent Claim(s):

...comprising:

at a first computer, receiving from a first device a first content identifier previously **determined** through a first type of operation;  
at said first computer, receiving from a second device a second content identifier previously **determined** through a second type of operation different than the first;  
from said first computer, forwarding...

32/3,K/15 (Item 6 from file: 654)

DIALOG(R)File 654:US PAT.FULL.

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7149482

#### UTILITY

#### Delivery of financial services to remote devices

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Examiner: Ingberg, Todd  
Legal Representative: Marcou, George T.; Kilpatrick Stockton LLP

	Publication Number	Kind	Date	Application Number	Filing Date
Main Patent	US 7249344	B1	20070724	US 99323210	19990601
Continuation	US 5933816	A		US 97908413	19970807
Provisional				US 60-29209	19961031

Disclaimer: This patent is subject to a terminal disclaimer.

Fulltext Word Count: 18722

#### Summary of the Invention:

...component 81 may provide immediate local authentication using public key certificates or may provide immediate **authentication** with the issuer, waiting for a response. The welcome mat component 81 may also provide background **authentication** with the issuer while going on to the navigation shell component 82 or may defer **authentication** to the first transaction. With deferred **authentication**, the welcome mat component 81 may need to instantiate a default customer relationship component 113 and a default set of product types, such as checking, savings, or **credit card**. If a rule broker component 121 does not have a registered issuer for the card/CIN prefix number, a customer ID component 111 is instantiated and marked invalid, further **authentication** of the customer is skipped, and a navigation shell component 82 for invalid customers is ...executor component 91 validates properties of data obtained from mini-app dialog components 83 to **determine** whether the required information needed to do the transaction exists. If the data is missing ...card information, if a card was used, including the type of card, such as ATM, **credit card**, SmartCard, and tracks present and track data. The customer ID component 111 knows the tier...

...identity, for instance, business code, financial institution identifier, and issuer type, such as bank card, **credit card**, or other third party card. The issuer component 112 knows the PIN length supported and... supported, and the navigation schemes supported. The issuer component 112 knows when or how to **authenticate** customer, such as by local validation of public key certificate, immediate to issuer, background to...man component 122, and welcome mat component 81. The session component 132 sends touch point **attached** notification to each of the components and supports registration of additional session components that need...0099]

B. Customer **Authentication**

[...

...0100] An example of the process of **authenticating** a customer will now be described with reference ...step E22, the touch point interface component 41 forwards the message to the appropriate session **bubble based** on the session ID in the session cookie. At step E3, the front door man...

...step E28, the welcome mat component 81 instantiates the profile transaction executor component 91 for **authenticating** the customer and then passes the CIN and encrypted PIN to the transaction executor component...The delivery system 12 can easily support multi-media HTML has well-known means for **embedding** and referencing a wide range of media types, for instance graphics, sounds, and movies. The...session bubble starts up normally at the CAT 16. When the welcome mat component 81 **determines** that this customer is off-region, the welcome mat component 81 makes a connection to...

...component 111 and issuer components 112 on the NetCAT server 200. After NetCAT server 200 **authenticates** the customer, with its own external service provider, the NetCAT server 200 starts up a...rule "answerer" may be installed or replaced independently from components which use that data to **determine** answers to rule questions...authorities, the rule engine has no specific knowledge of rules or applications. The rule engine **determines** answers for rules and is used by the rule broker component 121 and calls the...contains specific rules for dispense amounts and ask the peripheral device manager component 62 to **determine** what denominations are available...

Description of the Drawings:

...0031] FIGS. 5A to 5D are flow charts depicting operations of the delivery system in **authenticating** a customer...

### 32/3,K/16 (Item 7 from file: 654)

DIALOG(R)File 654:US PAT.FULL.

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7030920

#### UTILITY

#### Method and apparatus for microfluidics education

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Assignee: Unassigned

Examiner: Mosser, Kathleen

Legal Representative: Robinson, Ellis P.

	Publication Number	Kind	Application Date	Filing Number	Date
Main Patent	US 7210937	B1	20070501	US 2003440871	20030519
Provisional				US 60-382854	20020523

US Term Extension: 609 days

Fulltext Word Count: 4126

#### Summary of the Invention:

...rates. Examples of conventional microvalves include electrostatic valves, diaphragm valves, MEMS-based mechanical slides, and **bubble - based** valves. Fluidic connectors are required to either interconnect the various elements of a microfluidic system...of a convenient handling size of about 50 mmX90 mm (about the size of a **credit card**) and about 1 mm in thickness. The components are fabricated using any of the various a piezoelectric device, a diaphragm type pump or a **bubble - based**



micropump. The microchannel is 50-500 micron wide and 5-250 micron deep.  
The reservoirs...

Exemplary or Independent Claim(s):

Non-exemplary or Dependent Claim(s):

...additional system settings; plotting the flow pressure vs. flow rate  
from the collected measurements; and  
**determining** the characteristics of one of said plurality of  
microfluidic systems.

**32/3,K/17 (Item 8 from file: 654)**

DIALOG(R)File 654:US PAT.FULL.

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0005493130

**Programmable camera system with software interpreter**

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	Publication Number	Kind	Application Date	Filing Number	Date
Main Patent	US 20040004698	A1	20040108	US 2002291476	20021112
Continuation	ABANDONED			US 98113071	19980710
Priority			AU 977987	19970715	
			AU 977991	19970715	

Fulltext Word Count: 134529

Description of the Drawings:

...0180]FIG. 165 illustrates the print roll **authentication** chip...

...0181]FIG. 166 illustrates an enlarged view of the print roll  
**authentication** chip...

...0182]FIG. 167 illustrates a single **authentication** chip data protocol  
...

...0183]FIG. 168 illustrates a dual **authentication** chip data protocol...

...0196]FIG. 181 illustrates a schematic block diagram of the  
**authentication** chip...

...0218]FIG. 203 sets out the information stored on the print roll  
**authentication** chip...

...0219]FIG. 204 illustrates the data stored within the Artcam  
**authorization** chip...

Description of the Invention:

...0275] 22. Reading and storing information in a printing roll  
**authentication** chip 53...

...0276] 23. Reading and storing information in a camera **authentication** chip 54...

...0287] Print Roll **Authentication** Chip 53...

...0289] The **authentication** chip also provides other features...

...0292] 3. **Authentication** Information to prevent inferior clone print roll copies...

...0293] The **authentication** chip 53 contains 1024 bits of Flash memory, of which 128 bits is an **authentication** key, and 512 bits is the **authentication** information. Also included is an encryption circuit to ensure that the **authentication** key cannot be accessed directly...

...Artcard 9 is a piece of thin white plastic with the same format as a **credit card** (86 mm long by 54 mm wide). The Artcard is printed on both sides using...

...color (red/green) LED. When the card is successfully read, and data integrity has been **verified**, the LED lights up green continually. If the card is faulty, then the LED lights...

...0342] Camera **Authentication** Chip...

...0343] The camera **authentication** chip 54 is identical to the print roll **authentication** chip 53, except that it has different information stored in it. The camera **authentication** chip 54 has three main purposes  
...

...0344] 1. To provide a secure means of comparing **authentication** codes with the print roll **authentication** chip...

...display 5 is a full motion image display which operates as a viewfinder, as a **verification** of the image to be printed, and as a user interface display. The cost of...16 groups must be a contiguous set of cache lines. The CPU is responsible for **determining** how many cache lines to allocate to each group. Within each group cache lines are...

...0440] **Authentication** Chip Serial Interfaces 64...

...them. The reason for having 2 ports is to connect to both the on-camera **Authentication** chip, and to the print-roll **Authentication** chip using separate lines. Only using 1 line may make it possible for a clone print-roll manufacturer to design a chip which, instead of generating an **authentication** code, tricks the camera into using the code generated by the **authentication** chip in the camera...

...g 178 contains a 4 bit Synchronization Register 197. It is a mask used to **determine** which PUs e.g 178 work together, and has one bit set for each of...

...e.g 178 status bits to update the Common Status Register 200. The microcode for **determining** the output status bit takes the following form...

...block. The status select bit (choosing Zero or Negative) is passed into all units to **determine** which bit is to be output onto the status bit bus...

...test a status bit from the Common Status Register 200 and branch. The microcode for **determining** the next execution address takes the following form...

...one of Out[sub]1 or Out[sub]2 to one of the output FIFOs **attached** to the ALU 188. Finally, both registers are available as inputs to Crossbar 213, which...set of registers for that are used to control address generation. The addressing mode also **determines** how the data is formatted and sent into the local Input FIFO, and how data...

...0545] The 4 bit Address Mode Register is used to **determine** the Iterator type...

...0547] The Flags register (AccessSpecific[sub]1) contains a number of flags used to **determine** factors affecting the reading and writing of data. The Flags register has the following composition...

...0565] BoxOffset: This special purpose register is used to **determine** a sub-sampling in terms of which input pixels will be used as the center...

...coordinate. It would access the input image pixels according to this mapping, and coherence is **determined** by having sufficient cache lines on the 'random-access' reader for the input image. The...

...or 2 bytes) per data element. The 4 bit Address Mode Register is used to **determine** the I/O type...

...lookup section. The Flags register (AccessSpecific[sub]1) contains a number of flags used to **determine** factors affecting the reading (and in one case, writing) of data. The Flags register has...

...0585] This mode is described in the DRAM FIFO section below. The DataSize flag **determines** whether the size of each data elements of the table is 8 or 16 bits...

...the index is completely ignored. If the index is out of bounds, the DuplicateEdge flag **determines** whether the edge pixel or ConstantPixel is returned. The address generation is straightforward...

...and Table[Int(X)+1]. If either index is out of bounds the DuplicateEdge flag **determines** whether the edge pixel or ConstantPixel is returned. Address generation is the same as Direct...0767] Phase 2. Once the data area has been **determined**, the main read process begins, placing pixel data from the CCD into an 'Arctcard data...each of the 3 cases of interest in the FIFO, S2StartPixel can be used to **determine** the start of the black area of a target (Cases 1 and 2), and also...

...0802] This phase of processing is to **determine** a mathematical line that passes through the center of as many targets as possible. The...

...to do so (see below), and lowering complexity makes testing easier. It is necessary to **determine** the line between targets 0 and 1 (if both targets are considered valid) and then **determine** how many targets fall

on this line. Then we **determine** the line between targets 0 and 2, and repeat the process. Eventually we do the...

..0806] As illustrated in FIG. 34, in the algorithm above, to **determine** a CurrentLine 260 from Target A 261 and target B, it is necessary to calculate...

...N on the line, and if it falls within the tolerance, then Target N is **determined** to be on the line...

...it is incremented from -1 to 0 (see Step 0 Phase 1). The CurrentColumn register **determines** when to terminate the read process (when reaching maxColumns), and also is used to advance...

...have been written to the byte (once every 8 dot columns). The lower 3 bits **determine** what bit we're up to within the current byte. It will be the same...

...we need to read a [capital Delta, Greek]row and [capital Delta, Greek]column to **determine** the change to the centroid. The read process takes 5% of the bandwidth and 2...

..0846] Once the centroid has been **determined**, the pixels around the centroid need to be examined to detect the status of the...

..0870] Once the 20 bit 5 pixel expected value has been **determined** it can be compared against the actual pixels read. This can proceed by subtracting the...

### **32/3,K/18 (Item 9 from file: 654)**

DIALOG(R)File 654:US PAT.FULL.

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4178527 \*\*IMAGE Available

Derwent Accession: 1998-272490

#### **Utility**

#### **CERTIFICATE OF CORRECTION**

E/ **System and method for delivering financial services**

Inventor: Zeanah, James, Thousand Oaks, CA

Abbott, Charles, Santa Monica, CA

Boyd, Nik, Los Angeles, CA

Cohen, Albert, Los Angeles, CA

Cook, James, Manhattan Beach, CA

Grandcolas, Michael, Santa Monica, CA

Lan, Sikhun, Los Angeles, CA

Lindsley, Bonnie, Santa Clarita, CA

Markarian, Grigor, Agoura, CA

Moss, Leslie, Los Angeles, CA

Assignee: Citicorp Development Center, Inc.(02), Los Angeles, CA

Citicorp Dev Center Inc

Examiner: Stamber, Eric W. (Art Unit: 275)

Combined Principal Attorneys: Marcou, George T.Kilpatrick Stockton LLP

Publication	Application	Filing
Number	Kind Date	Number Date

-----  
Main Patent US 5933816 A 19990803 US 97908413 19970807  
Provisional US 60-29209 19961031

Fulltext Word Count: 19113

Summary of the Invention:

...a logon message to the remote device and instantiates a profile transaction executor component to **authenticate** a customer. A navigation shell component notifies the remote device of the list of available...

Description of the Drawings:

...FIGS. 5A to 5D are flow charts depicting operations of the delivery system in **authenticating** a customer...

Description of the Invention:

...the front door man component 51 adds a session security token to outgoing messages and **verifies** the session security token for incoming messages. For sessions with a CAT/CASST 16, the...

...control devices via an acquisition mechanism. Upon request, the session device manager component 63 first **determines** the availability and capability of the acquired device and returns the device reference to the client. The session device manager component 63 queries the peripheral device manager component 62 to **determine** devices available to the system, queries the delivery capabilities to **determine** the available remote devices and creates instances of those devices for use by session components...

...The crypto man component 75 manages secret keys associated with external service providers and performs **authentication** of public key certificates. The crypto man component 75 holds security keys for each external...

...variable, counter, and status indicator. The status monitor agent monitors status instrument variables and events, **determines** if an external system management product needs to be notified, and sends any important "alarms...

...the initial welcome page to the customer and collects customer identity and preference information. After **determining** the issuer of the customer ID and possibly **authenticating** the customer, the welcome mat component 81 instantiates several customer services objects to hold information...

...for issuer. The welcome mat component 81 instantiates a profile transaction executor component 91 to **authenticate** the customer and get the customer's relationships or customer profile. This process typically involves...

...The welcome mat component 81 may do four things for customer **authentication** based on acquirer rules and the type of customer ID, such as public key certificate, ATM card, **credit card**, on-us, or off-us. The welcome mat component 81 may provide immediate local **authentication** using public key certificates or may provide immediate 1 authentication

with the issuer, waiting for a response. The welcome mat component 81 may also provide background **authentication** with the issuer while going on to the navigation shell component 82 or may defer **authentication** to the first transaction. With deferred **authentication**, the welcome mat component 81 may need to instantiate a default customer relationship component 113 and a default set of product types, such as checking, savings, or **credit card**. If a rule broker component 121 does not have a registered issuer for the card/CIN prefix number, a customer ID component 111 is instantiated and marked invalid, further **authentication** of the customer is skipped, and a navigation shell component 82 for invalid customers is...executor component 91 validates properties of data obtained from mini-app dialog components 83 to **determine** whether the required information needed to do the transaction exists. If the data is missing...

...card information, if a card was used, including the type of card, such as ATM, **credit card**, SmartCard, and tracks present and track data. The customer ID component 111 knows the tier...

...identity, for instance, business code, financial institution identifier, and issuer type, such as bank card, **credit card**, or other third party card. The issuer component 112 knows the PIN length supported and...

...supported, and the navigation schemes supported. The issuer component 112 knows when or how to **authenticate** customer, such as by local validation of public key certificate, immediate to issuer, background to ...

...man component 122, and welcome mat component 81. The session component 132 sends touch point **attached** notification to each of the components and supports registration of additional session components that need...

...B. Customer **Authentication**  
...

...An example of the process of **authenticating** a customer will now be described with reference to FIGS. 5A to 5D and FIGS...

...step E22, the touch point interface component 41 forwards the message to the appropriate session **bubble based** on the session ID in the session cookie. At step E3, the front door man...

...step E28, the welcome mat component 81 instantiates the profile transaction executor component 91 for **authenticating** the customer and then passes the CIN and encrypted PIN to the transaction executor component...The delivery system 12 can easily support multi-media. HTML has well-known means for **embedding** and referencing a wide range of media types, for instance graphics, sounds, and movies. The...

...session bubble starts up normally at the CAT 16. When the welcome mat component 81 **determines** that this customer is off-region, the welcome mat component 81 makes a connection to...

...component 111 and issuer components 112 on the NetCAT server 200. After NetCAT server 200 **authenticates** the customer, with its own external service provider, the NetCAT server 200 starts up a...

...rule "answerer" may be installed or replaced independently from components which use that data to **determine** answers to rule questions  
...

...authorities, the rule engine has no specific knowledge of rules or applications. The rule engine **determines** answers for rules and is used by the rule broker component 121 and calls the...

...contains specific rules for dispense amounts and ask the peripheral device manager component 62 to **determine** what denominations are available...

Exemplary or Independent Claim(s):

Non-exemplary or Dependent Claim(s):

...man component for adding security tokens to messages sent to the remote device and for **verifying** security tokens on messages received from the remote device...

...forth in claim 17, wherein the welcome mat component instantiates a profile transaction executor to **authenticate** the customer...

...the welcome mat component a profile transaction executor component, the profile transaction executor component for **authenticating** a customer...

...tokens on messages sent to the remote device with the front door man component, and **verifying** with the front door man component the security tokens on messages received from the remote...

?

**22/3,K/1 (Item 1 from file: 15)**

DIALOG(R)File 15:ABI/Inform(R)

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02938691 129038781

**"Surveillance society" and "transparent society:" new challenges for society**

Rowley, William

Spectrum v75n2 PP: 16-17 Spring 2002

ISSN: 1067-8530 JRNL CODE: PJSG

...ABSTRACT: would like their financial transactions to be secure. This could be accomplished with biometric identifiers **embedded in credit cards** . However, there is much debate about a national **ID** card with biometric **identifier** . Society will constantly have to weight security versus privacy with freedom being impacted no matter...

**22/3,K/2 (Item 1 from file: 340)**

DIALOG(R)File 340:CLAIMS(R)/US Patent

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10148005 2002-0091646

**E/METHOD AND SYSTEM FOR VERIFYING THE IDENTITY OF ON-LINE CREDIT CARD PURCHASERS THROUGH A PROXY TRANSACTION**

Inventors: Eberwein Jeffrey T (US); Feczko Michael J (US); Gates J Russell (US); Hau Edward M (US); Hodges Gregory E (US); Lake Lawrence L (US); McCormick John B (US); Staks Martin (US)

Assignee: Unassigned Or Assigned To Individual

Assignee Code: 68000

Probable Assignee (A1): Arthur Andersen LLP

Attorney, Agent or Firm: Larry L. Saret Michael Best & Friedrich LLC, Suite 1900, 401 North Michigan Avenue, Chicago, IL, 60611, US

Publication Number	Kind	Application Date	Number	Date
US 20020091646	A1	20020711	US 2001986218	20011022

Priority Applic: US 2001986218 20011022

Provisional Applic: US 60-245768 20001103

**Exemplary Claim:**

...merchant server over a computer network, the process comprising: (a) collecting credit card information and **identification** information at a designated **identifier**; (b) transmitting the collected **credit card** information to an **authentication** server connected to a computer network; (c) performing an identification transaction wherein the authentication server determines whether the cardholder is **authorized** to use the **credit card** and, if so, the **authentication** server issues a code temporarily binding the identity of an individual possessing the code, the...

...the identification transaction including the credit card information, the code, and the identity of the **credit cardholder** on the **authentication** server sending the code to the identifier and cardholder; (e) entering the credit card information...

...cardholder's computer to the authentication server over a computer network; (f) comparing on the **authentication** server the **credit card** information and code submitted from the cardholder's computer to the credit card information and...

...certificate as payment; and (i) the merchant web server validating the digital certificate from the **authentication** web server before **authorizing** the **credit card** purchase transaction.

**Non-exemplary Claims:**

...computer network, the process comprising: (a) reading a credit card containing information at a designated **identifier**; (b) performing an **identification** transaction wherein the **identifier** determines whether the cardholder is **authorized** to use the **credit card** and, if so, an **authentication** server issues a code temporarily binding the identity of an individual possessing both the code...

...the identification transaction including the credit card information, the code, and the identity of the **credit cardholder** on an **authentication** server connected to a computer network; (d) submitting



the credit card information and the code...

**22/3,K/3 (Item 1 from file: 348)**

DIALOG(R)File 348:EUROPEAN PATENTS

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00908494

**Card system for collectively loading right of use in predetermined amount of money and method of processing the card**

**System mit Karten zum kollektiven Laden eines Gebrauchsrechtes für einen bestimmten Geldbetrag und Verfahren zum Verarbeiten der Karte**

**Système avec cartes pour collectivement charger un droit d'utilisation pour une somme d'argent prédéterminée et méthode de traitement de la carte**

PATENT ASSIGNEE:

KABUSHIKI KAISHA TOSHIBA, (213130), 72, Horikawa-cho, Saiwai-ku, Kawasaki-shi, Kanagawa-ken 210-8572, (JP), (Proprietor designated states: all)

INVENTOR:

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LEGAL REPRESENTATIVE:

Kramer - Barske - Schmidtchen (102192), European Patent Attorneys Patenta Radeckestrasse 43, 81245 Munchen, (DE)

PATENT (CC, No, Kind, Date): EP 829829 A2 980318 (Basic)

EP 829829 A3 990421

EP 829829 B1 031203

APPLICATION (CC, No, Date): EP 97113846 970811;

PRIORITY (CC, No, Date): JP 96214747 960814

DESIGNATED STATES: DE; FR; GB

INTERNATIONAL PATENT CLASS (V7): G07F-007/08; G07F-019/00

ABSTRACT WORD COUNT: 10262

NOTE:

Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text Language Update Word Count

CLAIMS B (English) 200349 3873

CLAIMS B (German) 200349 3379

CLAIMS B (French) 200349 4322

SPEC B (English) 200349 5171

Total word count - document A 0

Total word count - document B 16745

Total word count - documents A + B 16745

...CLAIMS 5, 51, 52, 53, S211) for generating data of transaction including a transaction ID, a **card** IC, an **authorized value** serial number, an amount of the transaction and data in accordance with the contents of...

...computer at predetermined time, and

means (5, 51, 52, 53, S304, 5305) for checking whether or not the transaction ID, the card ID and the authorized value serial number in data of the transaction are...

**22/3,K/4 (Item 2 from file: 348)**

DIALOG(R)File 348:EUROPEAN PATENTS

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00196559

**Offline pin cryptographic validation.**

**Autonome kryptographische Bewertung der persönlichen Identifizierungsnummer n.**

**Validation cryptographique en temps reel du numero d'identification personnel.**

PATENT ASSIGNEE:

International Business Machines Corporation, (200120), Old Orchard Road, Armonk, N.Y. 10504, (US), (applicant designated states: DE;FR;GB;IT)

INVENTOR:

Matyas, Stephen Michael, R D 5 Box 19F, Kingston New York 12401, (US)

LEGAL REPRESENTATIVE:

Blakemore, Frederick Norman (28381), IBM United Kingdom Limited  
Intellectual Property Department Hursley Park, Winchester Hampshire  
SO21 2JN, (GB)

PATENT (CC, No, Kind, Date): EP 191324 A2 860820 (Basic)

EP 191324 A3 890426

EP 191324 B1 920909

APPLICATION (CC, No, Date): EP 86100773 860121;

PRIORITY (CC, No, Date): US 700897 850212

DESIGNATED STATES: DE; FR; GB; IT

INTERNATIONAL PATENT CLASS (V7): G07F-007/10; H04L-009/14;

ABSTRACT WORD COUNT: 159

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
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CLAIMS B	(English)	EPBBF1	621
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CLAIMS B	(German)	EPBBF1	632
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CLAIMS B	(French)	EPBBF1	694
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SPEC B	(English)	EPBBF1	5759
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Total word count - document A	0
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Total word count - document B	7706
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Total word count - documents A + B	7706
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...SPECIFICATION would be stored in the table at the next level, namely Table 1, as shown in Figure 2.

Each customer is issued a PIN and a bank card on which is recorded a user identifier ID, a unique secret personal key KP, and other information including information that allows a verification value V...

...function of PIN, KP, ID, and KGb1 as described above, and is calculated via Equations 1 and 2. In the example given in Figure 2 where n = 3, the other information stored on the bank card necessary to allow a verification value V to be calculated would consist of a 56-bit value selected from each...

**22/3,K/5 (Item 1 from file: 349)**

DIALOG(R)File 349:PCT FULLTEXT

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00781893 \*\*Image available\*\*

**METHOD FOR GENERATING AND USING IDENTIFIER DATA**

**PROCEDE DE PRODUCTION ET D'UTILISATION DE DONNEES D'IDENTIFICATEUR**

Patent Applicant/Assignee:

WEBPRINT KY, Vaasantie 1, FIN-68600 Pietarsaari, FI, FI (Residence), FI  
(Nationality), (For all designated states except: US)

Patent Applicant/Inventor:

GEFWERT Dada, Vaasantie 1, FIN-68600 Pietarsaari, FI, FI (Residence), FI  
(Nationality), (Designated only for: US)

Legal Representative:

POHJANMAAN PATENTTITOIMISTO KOLSTER OY (agent), c/o Kolster OY AB, Iso  
Roobertinkatu 23, P.O. Box 148, FIN-00121 Helsinki, FI,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200115027 A1 20010301 (WO 0115027)

Application: WO 2000F1721 20000824 (PCT/WO F10000721)

Priority Application: FI 991809 19990825

Designated States:

(Protection type is "patent" unless otherwise stated - for applications  
prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK  
DK DM DZ EE ES FI FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR  
KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD  
SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW  
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE  
(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG  
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 4493

Fulltext Availability:

Detailed Description

Detailed Description

... reader device, in addition to which the user can be asked to enter a  
personal **identifier**, such as an **identification** number only known to  
the user, to **confirm** the user's rights. The **bank card** is meant for  
the user's personal use only, and it aims at identifying the...

**22/3,K/6 (Item 1 from file: 654)**

DIALOG(R)File 654:US PAT.FULL.

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5390907 \*\*IMAGE Available

Derwent Accession: 2003-776431

**Utility**

**REASSIGNED**

**E/ Promoting savings by facilitating incremental commitments made with**

**credit card and other consumer-initiated transactions**

Inventor: Ogilvie, John W. L., 1211 E. Yale Ave., Salt Lake City, UT, 84105

Assignee: Unassigned

Unassigned Or Assigned To Individual (Code: 68000)

Examiner: Patel, Jagdish (Art Unit: 364)

	Publication Number	Kind	Application Date	Filing Number	Date
Main Patent	US 6631358	A	20031007	US 99472658	19991227

Fulltext Word Count: 8265

## Description of the Invention:

...herein, "purchase" may include outright purchases as well as rentals, leases, and so on. The **authorization** 110 includes a **credit card** number, smart **card** identifier (possibly including digital signatures and/or keys), checking account number, or other means identifying...

...merchant electronically, the merchant will generally use its own computing system 114 to verify the **authorization** 110. For instance, a **credit card** transaction 116 typically involves communications between the computing system 114 and a computing system 115...systems of FIGS. 1 and 2, but includes a separate mapping feature 300 which converts **authorization** source identifiers (e.g., **credit card** numbers or smart card identifiers) into corresponding savings vehicle identifiers (e.g., bank name and...

...200 simply directs the specified funds to the mapping entity 300 with the authorization source **identifier** and/or the consumer's **identification**. Then the mapping entity 300 follows through with the savings vehicle provider 106 to make...

...information provided in the agreement 108, and to prevent fraud. This is particularly true of **credit card** numbers and similar **authorization** sources 402...

...s computer memory and/or network connections. The illustrated signal 700 includes one or more **authorization** sources 702, such as a **credit card** number, **charge card** number, smart **card** identifier, other card identifier, and/or checking account number. The illustrated signal 700 also includes...

**22/3,K/7 (Item 2 from file: 654)**

DIALOG(R)File 654:US PAT.FULL.

(c) Format only 2009 Dialog. All rts. reserv.

5349060 \*\*IMAGE Available

Derwent Accession: 2001-026473

**Utility****E/ Method and apparatus for remotely administered authentication and access control**

Inventor: Stoltz, Benjamin H., Mountain View, CA

Hanko, James G., Redwood City, CA

Assignee: Sun Microsystems, Inc.(02), Palo Alto, CA  
Sun Microsystems Inc (Code: 24836)  
Examiner: Etienne, Ario (Art Unit: 215)  
Assistant Examiner: Nguyen, Thu Ha  
Law Firm: O'Melveny & Myers LLP

	Publication Number	Kind	Application Date	Filing Number	Date
Main Patent	US 6615264	A	20030902	US 99289788	19990409

Fulltext Word Count: 13311

Description of the Invention:

...cables, Network terminal 202 sends a startup request to authentication manager 204 that includes a **unique identifier** that may correspond to a user. Such an identifier may originate from a token (a...

...if a user is at a terminal 202 that requires payment every 10 minutes, an **authentication** module 240 may **debit** a cash **card** every 10 minutes until the cash card is empty at which point a session may...

...contained in authentication database 218 may be used to identify the server, port and session **identifier (ID)** for session manager 206. Session manager 206 is a program that is active on a...an authentication module 240) for communicating with session manager 206. The sessionID field contains a **unique identifier** for session manager 206. If authentication is successful, the sessionHost, sessionPort and sessionID fields are...

...for a mondex card token. Such key-value pairs may be followed by a token **identifier** such as "ID=TOKENID343234234" wherein the key is "ID" and the value for the key is "TOKENID343234234". In...

**22/3,K/8 (Item 3 from file: 654)**

DIALOG(R)File 654:US PAT.FULL.

(c) Format only 2009 Dialog. All rts. reserv.

5340581 \*\*IMAGE Available

Derwent Accession: 2001-603816

**Utility**

**REASSIGNED, CERTIFICATE OF CORRECTION**

**E/ Secure electronic content distribution on CDS and DVDs**

Inventor: Hurtado, Marco M., Boca Raton, FL  
Milsted, Kenneth L., Boynton Beach, FL  
Gruse, George G., Lighthouse Point, FL  
Downs, Edgar, Ft. Lauderdale, FL  
Lehman, Christopher T., Delray Beach, FL  
Spagna, Richard L., Boca Raton, FL  
Lotspiech, Jeffrey B., San Jose, CA

Assignee: International Business Machines Corporation(02), Armonk, NY

International Business Machines Corp (Code: 42640)

Examiner: Nguyen, Cuong (Art Unit: 365)

Combined Principal Attorneys: Gibbons, Jon A.Fleit, Kain, Gibbons, Gutman & Bongini P.L.; Shofi, David M.

	Publication Number	Kind	Date	Application Number	Filing Date
Main Patent	US 6611812	A	20030826	US 99376102	19990817
CIP	US 6389538	A		US 98177096	19981022
CIP	US 6226618	A		US 98133519	19980813

Fulltext Word Count: 50606

Description of the Invention:

...by the Electronic Digital Content Store(s) 103 and what parts are retained in the **embedded** Metadata SC(s) 620...

...Digest Algorithm **ID** --An **identifier** of the algorithm used to compute the digests of the parts...

...Digital Signature Alg **ID** --An **identifier** of the algorithm used to encrypt the digest of the concatenated part digests. This encrypted...

**22/3,K/9 (Item 4 from file: 654)**

DIALOG(R)File 654:US PAT.FULL.

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5323619 \*\*IMAGE Available

Derwent Accession: 2001-539130

**Utility**

**M/ Payment management method and system using an IC card**

Inventor: Morooka, Yoshitsugu, Kawasaki, JP

Umezawa, Tomohiro, Kawasaki, JP

Hino, Masatoshi, Zama, JP

Assignee: Hitachi, Ltd.(03), Tokyo, JP

Hitachi Ltd JP (Code: 39224)

Examiner: Lee, Michael G. (Art Unit: 286)

Assistant Examiner: Lee, Seung H

Law Firm: Mattingly, Stanger & Malur, P.C.

	Publication Number	Kind	Date	Application Number	Filing Date
Main Patent	US 6604679	A	20030812	US 2002184916	20020701
Division	Pending			US 2000648614	20000828
Priority				JP 99362308	19991221

Fulltext Word Count: 5938

Description of the Invention:

...or not debited), other data 204 indicative of other user data, and user sequence number ( **ID ( identifier )** of the transaction history) 205  
...

...After the operation of the step 700 upon payment in the **credit** member store, the **card** user can **confirm** and rearrange the contents of the IC card 120 and also can collate it with...

...collated with the charged amount data possessed by the credit company,  
the user of the **credit card** can quickly **confirm** its due-payment  
date, judge an undue charge for a purchase not actually done by...

**22/3,K/10 (Item 5 from file: 654)**

DIALOG(R)File 654:US PAT.FULL.

(c) Format only 2009 Dialog. All rts. reserv.

5309823 \*\*IMAGE Available

Derwent Accession: 2003-707689

**Utility**

**E/ Method and apparatus for generating and modifying multiple instances of  
an element of a web site**

Inventor: Underwood, John, New York, NY

Neilson, Paul, New York, NY

Char, Hanson, New York, NY

Shing, David, New York, NY

Horner, Peter, New York, NY

Underwood, Mark, New York, NY

Slaney, Darren, New York, NY

Eveesson, Gary, Jersey City, NJ

Assignee: Decentrix Inc.(02), Denver, CO

Decentrix Inc

Examiner: Feild, Joseph H. (Art Unit: 216)

Assistant Examiner: Singh, Rachna

Law Firm: Frommer, Lawrence & Haug LLP

Combined Principal Attorneys: Kessler, Gordon; Chang, Dexter

	Publication Number	Kind	Date	Application Number	Filing Date
Main Patent	US 6601057	A	20030729	US 2000702356	20001030
Division	Pending			US 2000651874	20000830

Fulltext Word Count: 35960

Description of the Invention:

... **id** : The **unique identifier** of the target DXC instance. This is  
a number generated by Definer whenever a new...

...One-line **Credit card** authorization

**22/3,K/11 (Item 6 from file: 654)**

DIALOG(R)File 654:US PAT.FULL.

(c) Format only 2009 Dialog. All rts. reserv.

0005298165 \*\*IMAGE Available

Derwent Accession: 2002-107665

**Digital content distribution using web broadcasting services**

Inventor: Magda Mourad, INV

Joseph Munson, INV

Giovanni Pacifici, INV  
Ahmed Tantawy, INV  
Alaa Youssef, INV

Assignee: International Business Machines Corporation(02)

Correspondence Address: FLEIT, KAIN, GIBBONS, GUTMAN & BONGINI, P.L., ONE  
BOCA COMMERCE CENTER 551 NORTHWEST 77TH STREET, SUITE 111, BOCA RATON,  
FL, 33487, US

	Publication Number	Kind	Date	Application Number	Filing Date
Main Patent	US 20030135464	A1	20030717	US 2000487417	20000120
CIP	PENDING			US 99457563	19991209

Fulltext Word Count: 57810

Description of the Invention:

...records in the BOM along with the records for each part. The SC(s)  
type **determines** which records need to be included...

...0397] Digest Algorithm **ID** -An **identifier** of the algorithm used to  
compute the digests of the parts...

...0398] Digital Signature Alg **ID** -An **identifier** of the algorithm used  
to encrypt the digest of the concatenated part digests. This encrypted...

## 22/3,K/12 (Item 7 from file: 654)

DIALOG(R)File 654:US PAT.FULL.

(c) Format only 2009 Dialog. All rts. reserv.

0005251183 \*\*IMAGE Available

Derwent Accession: 2003-471854

### Apparatus and method for packet scheduling using credit based round robin

Inventor: Hong-Soon Nam, INV

Man-Soo Han, INV

Yong-II Jun, INV

Woo-Seop Rhee, INV

Correspondence Address: BLAKELY SOKOLOFF TAYLOR & ZAFMAN, 12400 WILSHIRE  
BOULEVARD, SEVENTH FLOOR, LOS ANGELES, CA, 90025, US

	Publication Number	Kind	Date	Application Number	Filing Date
Main Patent	US 20030103514	A1	20030605	US 200291870	20020305
Priority				KR 200175929	20011203

Fulltext Word Count: 11390

Summary of the Invention:

...corresponding connection for the HOL token of the packet queue by  
referring to the connection **identifier ( ID )** and the size of credit  
stored in the token. The HOL packet of the queue...



...the size of the HOL packet is equal to or less than that of the **credit** of the HOL **token** , and otherwise, the **credit** is added to a **confirmed** credit and a credit of the size of the available credit is stored again in...

**22/3,K/13 (Item 8 from file: 654)**

DIALOG(R)File 654:US PAT.FULL.

(c) Format only 2009 Dialog. All rts. reserv.

0005180882 \*\*IMAGE Available

Derwent Accession: 2001-146825

**System and method for conducting web-based financial transactions in capital markets**

Inventor: Harpal Sandhu, INV

Viral Tolat, INV

Stephen Rees, INV

Correspondence Address: OPPENHEIMER WOLFF & DONNELLY, P. O. BOX 10356, PALO ALTO, CA, 94303, US

	Publication Number	Kind	Date	Application Number	Filing Date	
Main Patent	US 20030033212	A1	20030213	US 2002105084	20020322	
CIP	PENDING			US 2000703198	20001031	
Provisional				US 60-162873	19991101	

Fulltext Word Count: 61197

Description of the Invention:

...0750] "Request **ID** ": **identifier** of the Quote Request...

...0766] "Request **ID** ": **identifier** of the Quote Request for which Quote Response is submitted...

...0767] "Quote **ID** ": **identifier** of the Quote Response...0810]

"Payload **ID** ": the **identifier** of a previously communicated payload...

**22/3,K/14 (Item 9 from file: 654)**

DIALOG(R)File 654:US PAT.FULL.

(c) Format only 2009 Dialog. All rts. reserv.

5110554 \*\*IMAGE Available

Derwent Accession: 2003-625127

**Utility**

**E/ Method and apparatus for encoding license parameters within a license number for authentication purposes**

Inventor: Alur, Deepak, Fremont, CA

Assignee: Sun Microsystems, Inc.(02), Santa Clara, CA

Sun Microsystems Inc (Code: 24836)

Examiner: Elisca, Pierre E. (Art Unit: 361)

Law Firm: Park Vaughan & Fleming LLP

Publication	Application	Filing
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	Number	Kind	Date	Number	Date
Main Patent	US 6581044	A	20030617	US 2000592051	20000612

Fulltext Word Count: 5407

#### Description of the Invention:

...Next, the system performs a **credit card authorization**, or some other payment transaction, to receive payment from user 102 for license 108 (step...

...Finally, the license number is created by concatenating the rotated **encoded** string with the rotated permutation **identifier** (step 520...

...license is not copied and used by multiple people. Note that any other type of **identification** with a **unique identifier** can be used instead of photo ID 209. For example, a social security card, a...

#### 22/3,K/15 (Item 10 from file: 654)

DIALOG(R)File 654:US PAT.FULL.

(c) Format only 2009 Dialog. All rts. reserv.

0005078713 \*\*IMAGE Available

Derwent Accession: 2003-029161

#### Method of electronic commerce transaction verification

Inventor: Andreas Mertens, INV

Assignee: I - nvite Communications Inc.(03)

Correspondence Address: Hall, Priddy, Myers & Vande Sande, 200-10220 River Road, Potomac, MD, 20854, US

	Publication Number	Kind	Date	Application Number	Filing Date
Main Patent	US 20020133468	A1	20020919	US 2001804157	20010313

Fulltext Word Count: 3025

#### Summary of the Invention:

...0014] In another aspect of the invention, the client may include their PIN (Personal **Identification Number**), or some other **identifier** depending on the chosen method of payment, as part of the credit card information sent to the **credit card** company/ **authorization** agent. The inclusion of the PIN acts a method of verification of the transaction and...

#### 22/3,K/16 (Item 11 from file: 654)

DIALOG(R)File 654:US PAT.FULL.

(c) Format only 2009 Dialog. All rts. reserv.

0004938504 \*\*IMAGE Available

#### System for preferred location pick-up for electronically purchased items

Inventor: Bruce Davis, INV

Correspondence Address: Roger A. Marrs, Suite 1120 15233 Ventura Blvd.,  
Sherman Oaks, CA, 91403, US

	Publication Number	Kind	Date	Application Number	Filing Date
Main Patent	US 20010049643	A1	20011206	US 2001803787	20010312
Provisional				US 60-188770	20000313

Fulltext Word Count: 2073

Description of the Invention:

...administrative division. The confirmation contains the particulars of the transaction such as product identifiers, locality **identifiers**, price, quantity, time allotments, buyer **ID** and credit information and password for the purchase (which is not on the buyer's...  
...up point, the purchaser must present identification such as an ID Card, the e-mail **confirmation** or **debit card** containing the information and the purchaser must know the password which they choose for that...

**22/3,K/17 (Item 12 from file: 654)**

DIALOG(R)File 654:US PAT.FULL.

(c) Format only 2009 Dialog. All rts. reserv.

4789417

Derwent Accession: 2001-539130

**Utility**

**M/ Payment management method and system using an IC card**

Inventor: Morooka, Yoshitsugu, Kawasaki, JP

Umezawa, Tomohiro, Kawasaki, JP

Hino, Masatoshi, Zama, JP

Assignee: Hitachi, Ltd.(03), Tokyo, JP

Hitachi Ltd JP (Code: 39224)

Examiner: Frech, Karl D. (Art Unit: 286)

Assistant Examiner: Lee, Seung Ho

Law Firm: Mattingly, Stanger & Malur, P.C.

	Publication Number	Kind	Date	Application Number	Filing Date
Main Patent	US 6488204	A	20021203	US 2000648614	20000828
Priority				JP 99362308	19991221

Fulltext Word Count: 6197

Description of the Invention:

...or not debited), other data 204 indicative of other user data, and user sequence number ( **ID ( identifier )** of the transaction history) 205  
...

...After the operation of the step 700 upon payment in the **credit** member store, the **card** user can **confirm** and rearrange the contents of the IC card 120 and also can collate it with...

...colated with the charged amount data possessed by the credit company,  
the user of the **credit card** can quickly **confirm** its due-payment  
date, judge an undue charge for a purchase not actually done by...

**22/3,K/18 (Item 13 from file: 654)**

DIALOG(R)File 654:US PAT.FULL.

(c) Format only 2009 Dialog. All rts. reserv.

4784533

Derwent Accession: 2003-265263

**Utility**

**CERTIFICATE OF CORRECTION**

**E/ Electronic shopping and merchandising system accessing legacy data in a  
database independent schema manner**

Inventor: Blinn, Arnold, Bellevue, WA

Cohen, Michael Ari, San Francisco, CA

Lorton, Michael, Redmond, WA

Stein, Gregory J., Redmond, WA

Assignee: Microsoft Corporation(02), Redmond, WA

Microsoft Corp (Code: 32791)

Examiner: Thomas, Joseph (Art Unit: 366)

Assistant Examiner: Kalinowski, Alexander

Law Firm: Lee & Hayes, PLLC

	Publication Number	Kind	Date	Application Number	Filing Date
Main Patent	US 6484150	A	20021119	US 99229117	19990112
Continuation	US 5897622	A		US 96732012	19961016

Fulltext Word Count: 13950

Description of the Invention:

... **id** " portion specifies the **unique** shopper **identifier** . Lastly,  
the "template.html" portion is the name of the HTML template to use to...

...A purchase.html page presents the order total and provides a form for  
entry of **credit card** payment information. To **confirm** purchases, a  
confirmed.html page presents a message confirming completion of the  
purchase transaction. Similarly...

... **id** " portion specifies the **unique** shopper **identifier** . Lastly, the  
"module.action" portion identifies the action to execute and the  
"arg1=value1; arg2

**22/3,K/19 (Item 14 from file: 654)**

DIALOG(R)File 654:US PAT.FULL.

(c) Format only 2009 Dialog. All rts. reserv.

4773212 \*\*IMAGE Available

Derwent Accession: 2000-423073

**Utility**

**REASSIGNED**

E/ **Electronic commerce using a transaction network**

Inventor: Cockrill, Michael P., Redmond, WA

Bryant, William K., Seattle, WA

Franklin, D. Chase, Seattle, WA

McNeely, Mark H., Mercer Island, WA

Ryan, Timothy J., Woodinville, WA

Sweet, Andrew P., Renton, WA

Siadek, Steven J., Seattle, WA

Faith, Jr., Ronald R., Bothell, WA

Goris, J. Mark, Seattle, WA

Malek, Thor A., Sultan, WA

Assignee: QPASS, Inc.(02), Seattle, WA

QPASS Inc

Examiner: Millin, Vincent (Art Unit: 364)

Assistant Examiner: Akers, Geoffrey

Law Firm: Leydig, Voit & Mayer, Ltd.

	Publication Number	Kind	Date	Application Number	Filing Date
Main Patent	US 6473740	A	20021029	US 98201311	19981129

Fulltext Word Count: 10208

Description of the Invention:

...In a further embodiment, during registration, the network permits the customer to provide a member **identifier** that is not **unique** among all of the customers of the network. In this embodiment, the network stores a **unique identifier** for the customer, along with the member identifier specified by the customer, in a cookie...

...When the customer subsequently authenticates by providing the member identifier, the network uses the member **identifier** to find the **unique identifier** on the customer's computer system, and uses the member **identifier** together with the **unique identifier** to authenticate the customer. In this way, the network allows customers to use non-**unique** member **identifiers**. This improves the customer experience for all customers, as it enables them to choose a...

...This is especially valuable where the network has a large number of customers. Facilitating non-**unique** member **identifiers** also permits the operator of the network to "absorb" or "import" existing groups of customers...

...collected member identifier. In step 903, the network extracts from the read customer cookie a **unique identifier** for the user stored in the customer cookie by the network. In one preferred embodiment, this **unique identifier** is the user's email address, or other information specific to the domain of the user. In step 904, if the combination of the collected user name and the extracted **unique identifier** correspond to a customer entry in the customer database, then the network continues in step...

...fields 1209, and a shared secret field 1210. It should be noted that the member **ID** 1208 may be any member **identifier** selected by the user, and does not need to be unique across the network. After...

...step 1103, the network verifies the entered payment information. In doing so, the network preferably **determines** whether the **credit card** number is valid, and whether the personal information collected matches the **credit card** number. As part of **determining** whether the **credit card** is valid and active, the network may further attempt to obtain authorization to charge a...

...to ensure that the credit card is active. The network may further utilize third party **credit card verification** or fraud detection services in performing step 1103. If verification of payment information fails, the...

...stores on the customer system a customer cookie identifying the customer by user name and **unique identifier** (preferably email address). In step 806, the network stores on the customer computer system a...

...continues in step 1906. In step 1905, the network generates a payment request for the **determined** sum against the **credit card**, or other form of payment, of the customer. In a preferred embodiment, the generated payment...

**22/3,K/20 (Item 15 from file: 654)**

DIALOG(R)File 654:US PAT.FULL.

(c) Format only 2009 Dialog. All rts. reserv.

4766851 \*\*IMAGE Available

Derwent Accession: 1998-542895

#### Utility

#### M/ Countable electronic monetary system and method

Inventor: Teicher, Mordechai, Hod-Hasharon, IL

Assignee: Cardis Enterprise international N.V.(03), Curacao, NL

Cardis Enterprise International N V NL

Examiner: Lee, Michael G. (Art Unit: 286)

Assistant Examiner: Walsh, Daniel

Law Firm: Eitan, Pearl, Latzer & Cohen-Zedek

	Publication Number	Kind	Application Date	Filing Number	Date
Main Patent	US 6467685	A	20021022	US 2000522019	20000309
CIP	US 6119946	A		US 9850388	19980330
Priority			IL 120585		19970401

Fulltext Word Count: 23454

#### Description of the Invention:

...consumers for payment. Payment card 2 is either in the well-known form of a **credit - card** like plastic **card** with an **embedded** chip, or in any other form, such as key-chain, toll-payment transponder, or part ...In general, also, a received electronic cash file contains transaction records with a transferring device **identification** field which contains the **identifier** for the device that transferred the electronic cash. Transferring devices include, but are not limited...

**22/3,K/21 (Item 16 from file: 654)**

DIALOG(R)File 654:US PAT.FULL.

(c) Format only 2009 Dialog. All rts. reserv.

4734558 \*\*IMAGE Available

Derwent Accession: 2003-014621

**Utility**

E/ **Systems and methods for delivering data updates to an aircraft**

Inventor: Muxlow, Dan, Phoenix, AZ

Mueller, Lisa A., Cave Creek, AZ

Mead, Stephen Earl, Peoria, AZ

Assignee: Honeywell International Inc.(02), Morristown, NJ

Honeywell International Inc (Code: 52549)

Examiner: Camby, Richard M. (Art Unit: 361)

	Publication Number	Kind	Date	Application Number	Filing Date
Main Patent	US 6438468	A	20020820	US 2000724228	20001128

Fulltext Word Count: 5765

**Description of the Invention:**

...Phoenix, Ariz. Common functionality associated with such servers includes passenger email service, duty free shopping, **credit card authentication**, electronic books, cached web browsing, and the like. Data loading functionality may be accomplished with...

...Such an entry may contain the serial number of the data update (which may include **unique identifiers**), effective dates, version numbers, and the like. Additionally, system server 102 may send a status...

...system server 102 of the successful load by sending information such as the data update **identifier**, version number, user **identification**, date loaded and/or load status of the load. Outdated data update files may also...

**22/3,K/22 (Item 17 from file: 654)**

DIALOG(R)File 654:US PAT.FULL.

(c) Format only 2009 Dialog. All rts. reserv.

4730214 \*\*IMAGE Available

Derwent Accession: 2001-336943

**Utility**

**CERTIFICATE OF CORRECTION**

E/ **Vehicle component diagnostic and update system**

Inventor: Snow, Kevin D., Augusta, MI

Starks, Matt W., Burlington, MI

Melvin, Steven L., Scotts, MI

Gooch, Douglas C., Richland, MI

Handley, Edward, Portage, MI

Assignee: Eaton Corporation(02), Cleveland, OH

Eaton Corp (Code: 25848)

Examiner: Nguyen, Tan (Art Unit: 361)

Law Firm: Rader, Fishman & Grauer PLLC

	Publication Number	Kind	Date	Application Number	Filing Date
Main Patent	US 6434455	A	20020813	US 99369629	19990806

Fulltext Word Count: 8769

Description of the Invention:

...parameters or configurations and past service), and product ownership. Parameters that are saved include vehicle **identifier** numbers, module **identification** information, module software revision information, and very specific product or component configuration information and performance...

...administrator and the assigned users and their authorization level, and electronic commerce interfacing such as **credit** card purchasing and **authorizing** ); and (5) communications (e.g., ability to transfer data packets using Hyper-Text Transfer Protocol...PC for use only on the pre-determined module 12. The encryption shall include a **unique** module related **identifier** (s) as "seed values" for the encryption calculations. The purpose of the encryption is to...

**22/3,K/23 (Item 18 from file: 654)**

DIALOG(R)File 654:US PAT.FULL.

(c) Format only 2009 Dialog. All rts. reserv.

4719959 \*\*IMAGE Available

Derwent Accession: 2000-206101

**Utility**

**CERTIFICATE OF CORRECTION**

E/ **Queued method invocations on distributed component applications**

Inventor: Dievendorff, Richard, Bellevue, WA

Helland, Patrick J., Bellevue, WA

Chopra, Gagan, Redmond, WA

Al-Ghosein, Mohsen, Redmond, WA

Assignee: Microsoft Corporation(02), Redmond, WA

Microsoft Corp (Code: 32791)

Examiner: Courtenay, III, St. John (Art Unit: 211)

Law Firm: Klarquist Sparkman, LLP

	Publication Number	Kind	Date	Application Number	Filing Date
Main Patent	US 6425017	A	20020723	US 98135378	19980817

Fulltext Word Count: 13281

Description of the Invention:

...a DLL file having a class factory to produce an instance of the class). Class **identifiers** are 128-bit globally **unique identifiers** ("GUIDs") that the programmer creates with a COM+ service named "CoCreateGUID" (or any of several other APIs and utilities that are used to create universally **unique identifiers** ) and assigns to the



respective classes. The interfaces of a component additionally are associated with...

...the listener 152 (FIG. 2). Also, a "Queue BLOB" attribute contains MSMQ names (as globally **unique identifier** (GUID) format names) of a set of queues relating to the COM+ Application. ("BLOB" is...

...will be used with queued method invocations by specifying "queue:/new;" followed by the program **ID** or string-form globally **unique identifier** (GUID) of the queued component as the "displayname" parameter of the "CoGetObject( )" API call. In...by the client application to give priority processing to particular operations, such as to prioritize **credit card authorizations** over check processing in a banking application. The message ID identifies the individual message. The...

#### 22/3,K/24 (Item 19 from file: 654)

DIALOG(R)File 654:US PAT.FULL.

(c) Format only 2009 Dialog. All rts. reserv.

4712735 \*\*IMAGE Available

Derwent Accession: 2002-654599

#### Utility

#### E/ Methods and apparatus for disseminating product information via the internet using universal product codes

Inventor: Call, Charles G., 53 Saint Stephen St., Boston, MA, 02115

Assignee: Unassigned

Unassigned Or Assigned To Individual (Code: 68000)

Examiner: Homere, Jean R. (Art Unit: 217)

	Publication Number	Kind	Date	Application Number	Filing Date
Main Patent	US 6418441	A	20020709	US 2000621662	20000724
Division	US 6154738	A	20001128	US 99316597	19990521
CIP	US 5913210	A	19990615	US 9849426	19980327

Fulltext Word Count: 19741

#### Description of the Invention:

...the data template record 207. The registration template record 207 includes several fields: an Company- **ID** field which holds the company- **identifier** portion of a universal product code in EAN format; a URL field which holds the...invoicing module 507 including shipping information supplied by the customer using HTML forms; it may **verify** and accept **credit card** information and transmit that to the invoicing module 507 so that the actual credit card...

#### 22/3,K/25 (Item 20 from file: 654)

DIALOG(R)File 654:US PAT.FULL.

(c) Format only 2009 Dialog. All rts. reserv.

4712716 \*\*IMAGE Available

Derwent Accession: 2002-462029

# Utility

## CERTIFICATE OF CORRECTION

E/ Postage meter machine with a chip card write/read unit and method for operating same

Inventor: Guenther, Stephan, Berlin, DE

Zarges, Olav A., Berlin, DE

Assignee: Francotype-Postalia AG & Co.(03), Birkenwerder, DE

Francotyp-Postalia AG & Co DE (Code: 13290)

Examiner: Sough, Hyung-Sub (Art Unit: 211)

Law Firm: Schiff Hardin & Waite

	Publication Number	Kind	Date	Application Number	Filing Date
Main Patent	US 6418422	A	20020709	US 98212498	19981215
Priority			DE 19757652	19971215	

Fulltext Word Count: 11324

Description of the Invention:

...step 116 when the predetermined relationship is lacking  
or--otherwise--, for example when the company **identifier** (company **ID**)  
is the same as the second identifier A2 that is formed, a branch is made  
...

...distinction is made between master card and successor cards, the  
difference is only that the **master card** is the first card **authorized**  
by the postage meter machine and is automatically given the number 001.  
Otherwise, the structure...

...from a cost center menu sub-point provided therefor by allocating--after  
insertion of the **master card** and selection of the **authorization**  
function--an arbitrary successor card to an existing or newly defined  
cost center or group...

...table ensues for the master card. The postage meter machine is blocked  
without an inserted **master card** exhibiting said **authorization**  
function. For example, the following table is present in the postage  
meter machine for the...

22/3,K/26 (Item 21 from file: 654)

DIALOG(R)File 654:US PAT.FULL.

(c) Format only 2009 Dialog. All rts. reserv.

4690635

# Utility

Key management system for digital content player

Inventor: Gruse, George Gregory, Lighthouse Point, FL

Hurtado, Marco M., Boca Raton, FL

Milsted, Kenneth Louis, Boynton Beach, FL

Lotspiech, Jeffrey B., San Jose, CA

Assignee: International Business Machines Corporation(02), Armonk, NY

Examiner: Trammell, James P. (Art Unit: 211)

Assistant Examiner: Elisca, Pierre E.

Combined Principal Attorneys: Meyers, Steven J.; Shofi, David M.Fleit,

Kain, Gibbons, Gutman & Bongini P.L.

	Publication Number	Kind	Date	Application Number	Filing Date
Main Patent	US 6398245	A	20020604	US 98203307	19981201
Division	Pending			US 98177096	19981022
CIP	US 6226618	A		US 98133519	19980813

Fulltext Word Count: 49560

Description of the Invention:

...The Content Identification Layer 503 allows for the **verification** of the copyright and the identity of the content purchaser. The content's copyright information...Digest Algorithm **ID** --An **identifier** of the algorithm used to compute the digests of the parts...

...Digital Signature Alg **ID** --An **identifier** of the algorithm used to encrypt the digest of the concatenated part digests. This encrypted...

**22/3,K/27 (Item 22 from file: 654)**

DIALOG(R)File 654:US PAT.FULL.

(c) Format only 2009 Dialog. All rts. reserv.

4680748

**Utility**

**REASSIGNED**

**System for tracking end-user electronic content usage**

Inventor: Gruse, George Gregory, Lighthouse Point, FL

Dorak, Jr., John J., Boca Raton, FL

Milsted, Kenneth Louis, Boynton Beach, FL

Assignee: International Business Machines Corporation(02), Armonk, NY

Examiner: Coggins, Wynn (Art Unit: 215)

Assistant Examiner: Nguyen, Cuong H.

Combined Principal Attorneys: Meyers, Steven J.; Shofi, David M.Fleit,

Kain, Gibbons, Gutman & Bongini P.L.

	Publication Number	Kind	Date	Application Number	Filing Date
Main Patent	US 6389538	A	20020514	US 98177096	19981022
CIP	US 6226618	A		US 98133519	19980813

Fulltext Word Count: 48841

Description of the Invention:

...input into the Work Flow Manager 154 Tool along with the Content Provider(s)' 101 **unique identifier** for the Content 113...

...s)' Database 160 by the Content information Processing Subsystem using the Content Provider(s)' 101 **unique identifier** for the Content 113 and information provided by the Database Mapping Template...

...138 Once the Electronic Digital Content Store(s) 103 receives the **credit card authorization** number back from the **credit card**

clearing organization, it stores this into a database and invokes the SC Packer Tool to...record in the Key Description part includes an encrypted symmetric key and the encryption algorithm **identifier** of the symmetric key that was used to encrypt the encrypted part...

**22/3,K/28 (Item 23 from file: 654)**

DIALOG(R)File 654:US PAT.FULL.

(c) Format only 2009 Dialog. All rts. reserv.

4676528 \*\*IMAGe Available  
Derwent Accession: 1999-445119

**Utility**

**E/ Arrangement and method for data exchange between a postage meter machine and clip cards**

Inventor: Guenther, Stephan, Berlin, DE

Kubatzki, Ralf, Berlin, DE

Assignee: Francotyp-Postalia AG & Co.(03), Birkenwerder, DE

Francotyp-Postalia AG & Co DE (Code: 13290)

Examiner: Trammell, James P. (Art Unit: 211)

Assistant Examiner: Hayes, John W.

Law Firm: Schiff Hardin & Waite

	Publication Number	Kind	Date	Application Number	Filing Date
Main Patent	US 6385597	A	20020507	US 98211339	19981215
Priority			DE 19757649	19971215	

Fulltext Word Count: 17538

**Description of the Invention:**

...point provided for that purpose. After insertion of the master card and selection of the **authorization** function, an arbitrary successor card is allocated to an existing or newly defined cost center...

...table ensues for the master card. The postage meter machine is blocked without an inserted **master card** exhibiting the **authorization** function...

**22/3,K/29 (Item 24 from file: 654)**

DIALOG(R)File 654:US PAT.FULL.

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4616605

**Utility**

**REASSIGNED**

**Marking medium area with encoded identifier for producing action through network**

Inventor: Dymetman, Marc, Grenoble, FR

Copperman, Max, Santa Cruz, CA

Assignee: Xerox Corporation(02), Stamford, CT

Examiner: Frech, Karl D. (Art Unit: 286)

Publication	Application	Filing
-------------	-------------	--------

	Number	Kind	Date	Number	Date
Main Patent	US 6330976	A	20011218	US 99276085	19990325
CIP	Pending			WO 98US20597	19980930
Priority			GB 986973		19980401
			GB 986977		19980401
			GB 987001		19980401

Fulltext Word Count: 22104

Description of the Invention:

...An **identifier** is a "globally **unique identifier** " if it maps to at most one thing in the world. An identifier is a...

...a sheet or sticker of paper or a document, bears visible or invisible markings that **encode** an **identifier** of the substrate and, in some cases, can also encode locations or zones within the...

## ...2. **Encoding** Action/Medium **Identifiers**

...

...A wide variety of techniques could be used to **encode**0 and decode action/medium **identifiers** into and from machine-readable markings...

...pointer precisely relative to the whole page. The processing circuitry can also decode the page- **identifier** and the page- **id** -code and can then provide these two items of data, along with a location code...

...Various other techniques could be employed for **encoding** and decoding action/medium **identifiers** .

...

...sheet can be processed through a specialized printing procedure which (1) assigns a fresh page- **identifier** (and possibly page- **id** -code) to the sheet, and (2) prints in UV ink machine-readable markings **encoding** the page- **identifier** (and possibly page- **id** -code) on the surface of the sheet...

...markings are durable, do not interfere with visible printed marks, and permit recovery of page- **identifiers** , page- **id** -codes, and location codes...

...an **encoded** representation of a page- **identifier** , i.e. an item of data whose value uniquely identifies the page, within cell border...

...first set of markings 208 over part of the interior of cell 202 provides an **encoded** representation of a page- **identifier** , while a second set of markings 210 over a smaller part of the interior of...

...incorporated herein by reference. Here, a first set of glyphs (markings) in upper section 402 **encodes** a page- **identifier** and a second set in lower section 404 encodes a location code (loc). Each glyph...

...coordinates as described above. FIG. 6B shows an exemplary zone or cell, with a page- **identifier encoded** in the center of the cell in alphanumeric characters and with a location code encoded... Machine-readable markings could encode information in various other ways.

For example, rather than **encoding** a page **identifier** with location codes over a large region of a page as suggested above, **encoded** location **identifiers** could occupy relatively small regions and could be positioned only in certain active positions or...

...The **encoded** location **identifiers** in a non-positional implementation could, for example, be DataGlyph address space fragments of the...

...For a multipage document, a non-positional implementation could also provide a **unique** document **identifier** that is **encoded** in machine-readable markings on each page of the document, making a page-identifier unnecessary. The document **identifier** could be **encoded** in each active position or region together with the position **identifier**, or it could be **encoded** separately in markings that could be at the bottom of the page. Alternatively, the document **identifier** could be **encoded** only once, such as on a cover page of the document...

...In use, processing device 602 extracts from the image data the **encoded** page- **identifier** and page-location data to obtain an item of data (<pid, loc>) and...

...A pointer as described above can have additional memory storing a **unique** pointer **identifier**, which the pointer can transmit along with an action/medium identifier such as a <...

...or provide identification in advance. The programmable memory can include a fax number and a **credit card** number or other payment **authorization** code. When the user clicks or clips an article, these items are also transmitted, so...

...As noted above, a non-positional implementation could alternatively **encode** the document **identifier** with the action identifier at each active position or region. If the action **identifiers** of **different** documents are in distinct ranges or sets of values, no further **encoding** is necessary because the action **identifiers** implicitly **encode** document **identifiers**. If a document **identifier** is **encoded**, implicitly or explicitly, with the action identifier at an active position or region, a single...

...confetti", could be made from a coded substrate. In particular, each sticker can have a **unique** sticker **identifier**. The stickers can be used to add multimedia links to a piece of conventional paper...It should be noted here that the idea of privately **encoding** the page **identifiers** does not strictly require the coded substrate medium. It could also be implemented via conventional...

...Implementations described above use DataGlyphs to **encode** action/medium **identifiers**, but various other machine-readable markings could be used. For visually nonobstructive markings, it is...

...Implementations described above use action/medium **identifiers** of several **different** types, including globally **unique** page **identifiers** and sticker **identifiers**, page identifiers paired with location identifiers, document identifiers paired with action identifiers, and so forth...

**22/3,K/30 (Item 25 from file: 654)**

DIALOG(R)File 654:US PAT.FULL.

(c) Format only 2009 Dialog. All rts. reserv.

4566712 \*\*IMAGE Available

Derwent Accession: 1998-348763

**Utility**

**CERTIFICATE OF CORRECTION**

E/ **Secure interactive electronic account statement delivery system**

Inventor: Powar, William L., Palo Alto, CA

Assignee: Visa International Service Association(02), Foster City, CA

Visa International Service Association

Examiner: Barron, Jr., Gilberto (Art Unit: 212)

Law Firm: Beyer Weaver & Thomas, LLP

Publication Number	Kind	Application Date	Filing Number	Date
Main Patent	US 6285991	A	20010904	US 96766498 19961213

Fulltext Word Count: 12263

**Description of the Invention:**

...Bank **ID 300** is a **unique identifier** that identifies the certificated bank to which the certificate is being issued within the electronic...

...Customer **ID 400** is a **unique identifier** with respect to the issuing certificated bank that uniquely identifies the customer to whom customer ...

...with biller **ID 500** and biller public key 505, respectively. Biller **ID 500**, like customer **ID 400**, is a **unique identifier** with respect to the issuing certificated bank that uniquely identifies the biller to whom biller...

...system in a manner analogous to the way in which payment card systems (such as **Visa** , **MasterCard** , etc.) **authorize** merchants to display system logos to communicate that they accept payment cards issued by those...

**22/3,K/31 (Item 26 from file: 654)**

DIALOG(R)File 654:US PAT.FULL.

(c) Format only 2009 Dialog. All rts. reserv.

4541538

**Utility**

**Method and apparatus to create encoded digital content**

Inventor: Milsted, Kenneth Louis, Boynton Beach, FL

Nguyen, Kha Dinh, Boca Raton, FL

Gong, Qing, WPB, FL

Assignee: International Business Machines Corporation(02), Armonk, NY

Examiner: Trammell, James P. (Art Unit: 211)

Assistant Examiner: Hayes, John W.

Combined Principal Attorneys: Meyers, Steven J.; Shofi, David M.Fleit,  
Kain, Gibbons, Gutman & Bongini P. L.

	Publication Number	Kind	Date	Application Number	Filing Date
Main Patent	US 6263313	A	20010717	US 98201622	19981130
Division	Pending			US 98177096	19981022
CIP	Pending			US 98133519	19980813

Fulltext Word Count: 47302

Description of the Invention:

...138 Once the Electronic Digital Content Store(s) 103 receives the **credit card authorization** number back from the **credit card** clearing organization, it stores this into a database and invokes the SC Packer Tool to...A Key **Identifier** of the public encryption key that was used to encrypt the symmetric key. This field...

...Digital Content Store(s) 103 download the Metadata SC(s) 620, for which they are **authorized** , and build Offer SC(s) 641. In short, an Offer SC(s) 641 consists of...

...Digest Algorithm **ID** --An **identifier** of the algorithm used to compute the digests of the parts...

...Digital Signature Alg **ID** --An **identifier** of the algorithm used to encrypt the digest of the concatenated part digests. This encrypted...

## **22/3,K/32 (Item 27 from file: 654)**

DIALOG(R)File 654:US PAT.FULL.

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4523585

### **Utility**

### **REASSIGNED, CERTIFICATE OF CORRECTION**

**REISSUE REQUESTED** \*\*See File 123 for details

**Computerized system for facilitating transactions between parties on the internet using e-mail**

Inventor: Stein, Lee H., Rancho Santa Fe, CA  
Stefferd, Einar A., Huntington Beach, CA  
Borenstein, Nathaniel S., Morristown, NJ  
Rose, Marshall T., Mountain View, CA

Assignee: Messagemedia, Inc.(02), Louisville, CO

Examiner: Stamber, Eric W. (Art Unit: 216)

Assistant Examiner: Kalinowski, Alexander

Law Firm: Brinks Hofer Gilson & Lione

	Publication Number	Kind	Date	Application Number	Filing Date
Main Patent	US 6246996	A	20010612	US 9874354	19980507
Continuation	Pending			US 94308101	19940916



Fulltext Word Count: 8744

Description of the Invention:

...payment, to the payment system 10. Typically, this may be done by using a conventional **authorization to charge a credit card**. The pay-in selection is not encoded in or directly derivable from the cardnumber...

...validity of the buyer's credit card number, e.g. pay-in selection 108B, to **determine** whether the **credit card** is lost, stolen, expired, overlimit, etc...number, Internet e-mail address 104, and the currency preference 112, language, and preferred account **identifier ID**.

**22/3,K/33 (Item 28 from file: 654)**

DIALOG(R)File 654:US PAT.FULL.

(c) Format only 2009 Dialog. All rts. reserv.

4500912 \*\*IMAGE Available

Derwent Accession: 2001-080031

**Utility**

**REASSIGNED, CERTIFICATE OF CORRECTION**

**E/ System and method for pre-authorization of individual account remote transactions**

Inventor: Watson, Craig J., 10026 S. Stone Mesa Ct., Sandy, UT, 84092

Burke, Brad, 15082 S. Kanab Ct., Draper, UT, 84020

Assignee: Unassigned

Unassigned Or Assigned To Individual (Code: 68000)

Examiner: Swann, Tod R. (Art Unit: 277)

Assistant Examiner: Myhre, James W.

Law Firm: Workman, Nydegger, Seeley

	Publication Number	Kind	Date	Application Number	Filing Date
Main Patent	US 6226624	A	20010501	US 99276289	19990325
CIP	US 5991750	A		US 97957419	19971024

Fulltext Word Count: 10950

Summary of the Invention:

...a transaction amount and other parameters such as a standard industrial code (SIC), a merchant **identifier** (MID) and an acquiring bank **identification** number (BIN)...

...through a card company 110 (e.g., MasterCard(R), VISA(R), Discover Card(R) or **American Express** (R)) prior to reaching **authorizing agent** 112 for comparison of account parameters. Authorizing agent 112 compares the transaction parameters for...

...the quotation process, an acceptable variance or deviation range from the quotation amount, a merchant **identifier** (MID) or an acquiring bank **identification** number (BIN) are dispatched to the card issuer. It should be pointed out that in...

Description of the Invention:

...It should also be appreciated that the functions of the " **bank card** association," " **authorizing** agent," " card issuer," and the sponsor of an "authorization web page" may be one or...

...the quotation process, an acceptable variance, or deviation range from the quotation amount, a merchant **identifier** (MID) and an acquiring bank **identification** number (BIN) are dispatched to card issuer 214. It should be pointed out that in...

...permitting the inclusion of sales tax with the quoted transaction amount, while leaving the merchant **identifier** and acquiring bank **identification** number unspecified, thereby permitting an account user to seek out the goods or services of...

...number 504, merchant information 506 a transaction amount 508 and a transaction identifier 510. Transaction **identifier** 510, by containing descriptive information **unique** to the transaction enables an account manager to quickly identify a corresponding authorization document for... 708 performs a traditional authorization request which in a step 710 passes through an acquiring **bank** , a **bank card** association to an **authorizing** agent. The authorizing agent thereupon performs an authorization with the account number and any other...

**22/3,K/34 (Item 29 from file: 654)**

DIALOG(R)File 654:US PAT.FULL.

(c) Format only 2009 Dialog. All rts. reserv.

4485113 \*\*IMAGE Available

Derwent Accession: 1991-164401

**Utility**

E/ **Non-minutiae automatic fingerprint identification system and methods**

Inventor: Gagne, Patricia C., Coventry, RI

Puterko, Carol M., Coventry, RI

Assignee: TMS, Inc.(02), Warwick, RI

TMS Inc

Examiner: Couso, Jose L. (Art Unit: 271)

Combined Principal Attorneys: Del Giudice, Paul V.

	Publication Number	Kind	Date	Application Number	Filing Date
Main Patent	US 6212290	A	20010403	US 94337204	19941107
Continuation	US 5363453	A		US 9335483	19930322
Continuation	Abandoned			US 89430421	19891102

Fulltext Word Count: 11690

Summary of the Invention:

...a retail credit card, a smart card, or others as set forth hereinafter. The numeric **identifier** of such portable personnel **identification** means is previously derived in accordance with the teachings of the present invention and then...

...identification of an individual submitting him or herself for

identification for the purpose of: retail **credit card** purchases, **authorized** entry, check cashing, obtaining a driver's license, showing proof of age via a driver...

...of the digit print image, and this digitized numerical identifier is compared with a numerical **identifier** read from an **identification** card means identifying the person to be identified, to verify the identity of that person...

...identification cards, as exemplified by the provision disclosed herein of a non-minutiae digitized numerical **identifier** having 24 bytes of fingerprint **identification** data...

...card personal to the person and therefore, the present invention facilitates the use of a **credit card** as a **verifiable** identification card for entitling the user to certain services such as charged purchases and check...

#### Description of the Invention:

...magnetic stripe) which contains his or her encrypted verification data (i.e., encrypted digitized numerical **identifier**), the **identification** card is then placed in the card reader for retrieval and decryption of the "comparison...

...the confines of a portable personnel identification means, personal to a person, such as a **credit card** or a smart card; identity **verification** of a person to be identified with or without an encryption scheme; and payable check...

...identifiers indicative of the fingerprints of such persons, and recording the non-minutiae digitized numerical **identifiers** within **identification** means, personal to such persons; or (2) performing such a service but providing the derived...

...indicative of a fingerprint of a person submitting the check for cashing, with the numerical **identifier** contained within a portable personnel **identification** means submitted by such person for identification as the check payee of the check payable...

...application of the present invention, where verification of identity is accomplished by comparing the numerical **identifier** of **identification** means with the non-minutiae digitized numerical identifier derived from a fingerprint of such person...

**22/3,K/35 (Item 30 from file: 654)**

DIALOG(R)File 654:US PAT.FULL.

(c) Format only 2009 Dialog. All rts. reserv.

4471521 \*\*IMAGE Available

Derwent Accession: 1999-445118

#### Utility

**M/ Postage meter machine with a chip card write/read unit and method for operating same**

Inventor: Bornemann, Ludger, Berlin, DE

Guenther, Stephan, Berlin, DE

Kopanski, Wilfried, Berlin, DE

	Number	Kind	Date	Number	Date
Main Patent	US 6182892	A	20010206	US 9847915	19980325

Fulltext Word Count: 7326

Description of the Invention:

...security tokens. Currently, smart cards have the approximate look and feel of a standard plastic **bank card**. However, the smart card is **embedded** with a secure (tamper-resistant) silicon chip. The smart card holds information in electronic form...

...FIG. 1 depicts the preferred embodiment of the disclosed methodology for providing fingerprints **authentication** via a **credit card** form factor. A card 102 (with a credit card form factor) is partially inserted into...

...transmitting an identifier stored in said module which uniquely identifies said module; entering a personal **identification** number; checking said **identifier**, personal **identification** information, and image against said authentication data...

**22/3,K/37 (Item 32 from file: 654)**

DIALOG(R)File 654:US PAT.FULL.

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4432080

**Utility**

**REASSIGNED**

**Method and device for generating a single-use financial account number**

Inventor: Walker, Jay S., Ridgefield, CT

Schneier, Bruce, Minneapolis, MN

Jindal, Sanjay K., Wilton, CT

Tedesco, Daniel E., Monroe, CT

Assignee: Walker Digital, LLC(02), Stamford, CT

Examiner: Teska, Kevin J. (Art Unit: 273)

Assistant Examiner: Smith, Demetra R.

Combined Principal Attorneys: Buckley, Patrick J.; Alderucci, Dean

	Publication Number	Kind	Date	Application Number	Filing Date
Main Patent	US 6163771	A	20001219	US 97919339	19970828

Fulltext Word Count: 7503

Description of the Invention:

...101 contains a cryptographic processor. The device may be activated through the input of a **unique** cardholder **identifier** such as a personal **identification** number (PIN) through the keypad 103. Alternatively, the device may include a biometric interface 105...

...the merchant. The merchant 302 transmits the single-use credit card number 300 to a **credit card** issuer 303. The **credit card** issuer 303 returns an **authorization** 310 to the merchant, based on which the

merchant delivers the desired goods or services...

...to the merchant (step 361), and the merchant enters the single-use number into an **authorization** terminal connected to a central **credit card** processing system maintained by the credit card issuer (step 362). A check digit may be...

...number to prevent the incorrect keying of the number. The number is sent to the **credit card** processing system for **authorization** (step 363). The central system processor maps the single-use credit card number onto a conventional **credit card** account and **determines** whether the transaction is authorized (step 380); if so, the central system returns an authorization...

**22/3,K/38 (Item 33 from file: 654)**

DIALOG(R)File 654:US PAT.FULL.

(c) Format only 2009 Dialog. All rts. reserv.

4407882 \*\*IMAGE Available

Derwent Accession: 2001-181122

**Utility**

**REASSIGNED**

**E/ Mechanism for facilitating secure storage and retrieval of information on a smart card by an internet service provider using various network computer client devices**

Inventor: Dancs, Frank B., Hillsborough, CA

Zmuda, James E., Foster City, CA

Assignee: Liberate Technologies(02), San Carlos, CA

Liberate Tech

Examiner: Peeso, Thomas R. (Art Unit: 277)

Law Firm: Fliesler, Dubb, Meyer & Lovejoy

	Publication Number	Kind	Application Date	Filing Number	Date
Main Patent	US 6141752	A	20001031	US 9873269	19980505

Fulltext Word Count: 14048

Description of the Invention:

...User is an individual in possession of an NC smart card 102. An ENTERPRISE[sub]-- **ID** is a **unique identifier** for either an ISP 109 or corporate client...registration page, and to establish a user password, if desired. At step 3005, the ISP **determines** whether the user's **credit card** is valid. If not, it stops. If the credit card is valid at step 3006...

**22/3,K/39 (Item 34 from file: 654)**

DIALOG(R)File 654:US PAT.FULL.

(c) Format only 2009 Dialog. All rts. reserv.

4403757

**Utility**

**REASSIGNED**

**Dynamically changing system for fulfilling concealed value gift certificate obligations**

Inventor: Walker, Jay S., Ridgefield, CT

Vanluchene, Andrew S., Norwalk, CT

Tedesco, Daniel E., Stamford, CT

Jorasch, James A., Stamford, CT

Assignee: Walker Asset Management Limited Partnership(02), Stamford, CT

Examiner: Trammell, James P. (Art Unit: 274)

Assistant Examiner: Smith, Demetra R.

Combined Principal Attorneys: Brandt, Jeffrey L.

	Publication Number	Kind	Date	Application Number	Filing Date
Main Patent	US 6138106	A	20001024	US 97994124	19971219
CIP	Pending			US 97858738	19970519

Fulltext Word Count: 9378

**Description of the Invention:**

... **Authorization** code 86 includes the **credit card authorization** code obtained by the gift certificate issuer for both pre- and post-paid gift certificates...

...12 receives a log-on message from the buyer including the buyer's name and **identifier (ID)** (if the buyer is not a first time user). Central controller 12 queries buyer database...

...information such as the credit card number and amount of transaction are transmitted to a **credit card** issuer for **authorization** (step 136) of the gift certificate value. Such communication is accomplished through a conventional credit

**22/3,K/40 (Item 35 from file: 654)**

DIALOG(R)File 654:US PAT.FULL.

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4393153

**Utility**

**REASSIGNED**

**Method and apparatus for processing customized group reward offers**

Inventor: Walker, Jay S., Ridgefield, CT

Jindal, Sanjay K., Wilton, CT

Weir-Jones, Toby, Stamford, CT

Assignee: Walker Asset Management Limited Partnership(02), Stamford, CT

Examiner: Tkacs, Stephen R. (Art Unit: 271)

Combined Principal Attorneys: Alderucci, Dean; Maschoff, Kurt M.

	Publication Number	Kind	Date	Application Number	Filing Date
Main Patent	US 6128599	A	20001003	US 97948144	19971009

Fulltext Word Count: 7220

Zarges, Olav A., Berlin, DE  
Assignee: Francotyp-Postalia AG & Co.(03), Birkenwerder, DE  
Francotyp-Postalia AG & Co DE (Code: 13290)  
Examiner: Frech, Karl D. (Art Unit: 286)  
Assistant Examiner: Lee, Diane I.  
Law Firm: Schiff Hardin & Waite

	Publication Number	Kind	Date	Application Number	Filing Date	
Main Patent	US 6199752		A	20010313	US 98211344	19981215
Priority				DE 19757648		19971215

Fulltext Word Count: 9961

#### Description of the Invention:

...step 116 when the predetermined relationship is lacking  
or--otherwise--, for example when the company **identifier** (company **ID**)  
is the same as the second identifier A2 that is formed, a branch is made  
...

...distinction is made between master card and successor cards, the  
difference is only that the **master card** is the first card **authorized**  
by the postage meter machine and is automatically given the number 001.  
Otherwise, the structure...

...from a cost center menu sub-point provided therefor by allocating--after  
insertion of the **master card** and selection of the **authorization**  
function--an arbitrary successor card to an existing or newly defined  
cost center or group...

...table ensues for the master card. The postage meter machine is blocked  
without an inserted **master card** exhibiting said **authorization**  
function. For example, the following table is present in the postage  
meter machine for the...

**22/3,K/36 (Item 31 from file: 654)**

DIALOG(R)File 654:US PAT.FULL.

(c) Format only 2009 Dialog. All rts. reserv.

4453020 \*\*IMAGE Available  
Derwent Accession: 1999-530193

#### Utility

#### REASSIGNED

M/ **Smart card with fingerprint image pass-through**

Inventor: Angelo, Michael F., Houston, TX

Tellez, Mark B., The Woodlands, TX

Park, Steve H., Spring, TX

Assignee: Compaq Computer Corporation(02), Houston, TX

Compaq Computer Corp (Code: 21559)

Examiner: Le, Thien M. (Art Unit: 286)

Assistant Examiner: Felten, Daniel S

Law Firm: Conley, Rose & Tayon, P.C.

Publication	Application	Filing
-------------	-------------	--------

Description of the Invention:

...an affinity group. Affinity group ID field 310 is a key field and stores a **unique** affinity group **identifier**. Sponsor field 312 stores the name of the sponsor of the affinity group. Address element...

...Account ID field 410 stores a **unique** account **identifier**. Account **ID** field 410 is assigned by the credit card issuer to uniquely identify an account of a card holder. In the present embodiment, the **unique** account **identifier** will be a standard 16 digit credit card account number...

...an affinity group. The fields of group target/reward table 500 are populated with values **determined** by the **credit card** issuer. The steps for **determining** these values are described in more detail with reference to FIG. 7...

...merchant ID field 612; transaction amount field 614; date field 616; time field 618; and **credit card authorization** number 622. Transaction table 600 may be used to analyze the account activity of each ...

**22/3,K/41 (Item 36 from file: 654)**

DIALOG(R)File 654:US PAT.FULL.

(c) Format only 2009 Dialog. All rts, reserv.

4383812 \*\*IMAGE Available

Derwent Accession: 1998-542895

**Utility**

**CERTIFICATE OF CORRECTION**

**M/ Countable electronic monetary system and method**

Inventor: Teicher, Mordechai, Kfar Saba, IL

Assignee: Cardis Enterprise International N.V.(03), Curacao, AN

Cardis Enterprise International N V NL

Examiner: Le, Thien M. (Art Unit: 286)

Assistant Examiner: Felten, Daniel S

Law Firm: Darby & Darby

	Publication		Application		Filing	
	Number	Kind	Date	Number	Date	
Main Patent	US 6119946	A	20000919	US 9850388	19980303	
Priority			IL 120585	19970401		

Fulltext Word Count: 22523

Description of the Invention:

...consumers for payment. Payment card 2 is either in the well-known form of a **credit - card** -like plastic **card** with an **embedded** chip, or in any other form, such as key-chain, toll-payment transponder, or part ...In general, also, a received electronic cash file contains transaction records with a transferring device **identification** field which contains the **identifier** for the device that transferred the electronic cash. Transferring devices include, but are not limited...



22/3,K/42 (Item 37 from file: 654)

DIALOG(R)File 654:US PAT.FULL.

(c) Format only 2009 Dialog. All rts. reserv.

4375060 \*\*IMAGE Available

Derwent Accession: 1999-419949

**Utility**

E/ **Postage meter machine with a chip card write/read unit and method for operating same**

Inventor: Guenther, Stephan, Berlin, DE

Assignee: Francotyp-Postalia AG & Co.(03), Birkenwerder, DE

Francotyp-Postalia AG & Co DE (Code: 13290)

Examiner: Pitts, Harold I. (Art Unit: 286)

Law Firm: Hill & Simpson

	Publication Number	Kind	Date	Application Number	Filing Date	
Main Patent	US 6111951		A	20000829	US 98211192	19981215
Priority			DE	19757651	19971215	

Fulltext Word Count: 12074

**Description of the Invention:**

...step 116 when the predetermined relationship is lacking  
or--otherwise--, for example when the company **identifier** (company **ID**)  
is the same as the second identifier A2 that is formed, a branch is made  
...

...distinction is made between master card and successor cards, the  
difference is only that the **master card** is the first card **authorized**  
by the postage meter machine and is automatically given the number 001.  
Otherwise, the structure...

...from a cost center menu sub-point provided therefor by allocating--after  
insertion of the **master card** and selection of the **authorization**  
function--an arbitrary successor card to an existing or newly defined  
cost center or group...

...table ensues for the master card. The postage meter machine is blocked  
without an inserted **master card** exhibiting said **authorization**  
function. For example, the following table is present in the postage  
meter machine for the...

22/3,K/43 (Item 38 from file: 654)

DIALOG(R)File 654:US PAT.FULL.

(c) Format only 2009 Dialog. All rts. reserv.

4371373 \*\*IMAGE Available

Derwent Accession: 2001-022886

**Utility**

**REASSIGNED**

E/ **Mechanism for users with internet service provider smart cards to roam among geographically disparate authorized network computer client devices**

**without mediation of a central authority**

Inventor: Dancs, Frank B., Hillsborough, CA

Zmuda, James E., Foster City, CA

Assignee: Liberate Technologies(02), San Carlos, CA

Liberate Tech

Examiner: Pecos, Thomas R. (Art Unit: 277)

Law Firm: Fliesler, Dubb, Meyer & Lovejoy

	Publication Number	Kind	Date	Application Number	Filing Date
Main Patent	US 6108789	A	20000822	US 9873092	19980505

Fulltext Word Count: 13785

**Description of the Invention:**

...User is an individual in possession of an NC smart card 102. An ENTERPRISE[sub]-- ID is a **unique identifier** for either an ISP 109 or corporate client...registration page, and to establish a user password, if desired. At step 3005, the ISP **determines** whether the user's **credit card** is valid. If not, it stops. If the credit card is valid at step 3006...

**22/3,K/44 (Item 39 from file: 654)**

DIALOG(R)File 654:US PAT.FULL.

(c) Format only 2009 Dialog. All rts. reserv.

4332134 \*\*IMAGE Available

Derwent Accession: 1999-070844

LitAlert Accession: P2000-46-29; P2001-40-18; P2001-43-24 \*\*See File 670 for Litigation

**Utility**

**REASSIGNED**

**E/ Method and system for securely incorporating electronic information into an online purchasing application**

Inventor: Krishnan, Ganapathy, Bellevue, WA

Guthrie, John, Seattle, WA

Oyler, Scott, Seattle, WA

Assignee: ShopNow.com Inc.(02), Seattle, WA

ShopNow com Inc

Examiner: Trammell, James P. (Art Unit: 274)

Assistant Examiner: Rosen, Nicholas David

Law Firm: Perkins Coie LLP

	Publication Number	Kind	Date	Application Number	Filing Date
Main Patent	US 6073124	A	20000606	US 97895221	19970715
CIP	Pending			US 97792719	19970129
Provisional				US 60-49844	19970617

Fulltext Word Count: 13872

**Description of the Invention:**

...utilize the purchasing capabilities of the licensing and purchasing broker. The library function provides a **unique** transaction **identifier** that can be used to identify the particular purchase transaction at a further time. Such...

...licensing code accordingly. One skilled in the art will recognize that any mechanism for is **authorizing** use of a **credit card** could be used. In step 1204, the customer's credit card account is charged, and...

...product version identifier (the ProductSKUId) to retrieve from a version table a corresponding password configuration **identifier** (pass-config-id). Once the pass-config-id is retrieved from the version password generation data repository table...

**22/3,K/45 (Item 40 from file: 654)**

DIALOG(R)File 654:US PAT.FULL.

(c) Format only 2009 Dialog. All rts. reserv.

4328817

**Utility**

**REASSIGNED**

**Customer identification and marketing analysis systems**

Inventor: Harms, Brent, Apple Valley, MN

Johnson, Kurt, St. Paul, MN

Assignee: Tecmark Services, Inc.(02), St. Paul, MN

Examiner: Stamber, Eric W. (Art Unit: 275)

Assistant Examiner: Kanof, Pedro R.

Law Firm: Dorsey & Whitney LLP

	Publication Number	Kind	Date	Application Number	Filing Date	
Main Patent	US 6070147		A	20000530	US 96672527	19960702

Fulltext Word Count: 8571

Description of the Invention:

...Devices similar to the identification terminal 15 are in use for **credit card** transactions, check **verification**, and privately issued card reading, data capture, and data communications. Card reader 9 may be ...

...record also includes the consumer's birth date 22, which is also taken from the **identification** card 16. Further, a terminal **identifier** number 23, which is **unique** to the terminal, is made part of the identification data record. This information can be...

**22/3,K/46 (Item 41 from file: 654)**

DIALOG(R)File 654:US PAT.FULL.

(c) Format only 2009 Dialog. All rts. reserv.

4322885 \*\*IMAGE Available

Derwent Accession: 2000-610540

# Utility

## EXPIRED

E/ **Data processing system including transaction authorization device**

Inventor: Thomas, Harold K., 944 S. 21st St., Mesa, AZ, 85204

Assignee: Unassigned

Unassigned Or Assigned To Individual (Code: 68000)

Examiner: MacDonald, Allen R. (Art Unit: 275)

Assistant Examiner: Irshadullah, M.

Law Firm: Drummond & Duckworth

	Publication Number	Kind	Date	Application Number	Filing Date
Main Patent	US 6064988	A	20000516	US 9882496	19980521
Continuation	Abandoned			US 9337729	19930326
Continuation	Abandoned			US 89437448	19891115
CIP	Abandoned			US 8785569	19870817

Fulltext Word Count: 4899

### Description of the Invention:

...the rightful possessor of the transaction card 13 enters, as indicated by line 25, an **identifier** 26 (e.g., Personal **Identification** Number or "PIN") by means of the data-entry component 18 into the logic memory...

...the same TAD can be programmed with PIN's and other transaction-specific data and **authorization** data relating to several **credit card** accounts, several **debit** accounts, several phone accounts and similar data relating to a wide variety of other transactions...

...This concept of separating the **bank card** function from the **authorization** function into separate cards, provides an off-line **authorization** system without disturbing the present **credit card** infrastructure...

...unrestricted TAD, purchases can be processed in the normal manner using the customer's conventional **bank card**, and obtaining an off-line **authorization** by means of the customer's supersmart card...

22/3,K/47 (Item 42 from file: 654)

DIALOG(R)File 654:US PAT.FULL.

(c) Format only 2009 Dialog. All rts. reserv.

4253126 \*\*IMAGE Available

Derwent Accession: 2000-105008

# Utility

## E/ **Secure open smart card architecture**

Inventor: Kuo, Chih-Cheng, 7 Maidens Bower Ct., Potomac, MD, 20854

Lo, Minwen, 7 Maidens Bower Ct., Potomac, MD, 20854

Assignee: Unassigned

Unassigned Or Assigned To Individual (Code: 68000)

Examiner: Hua, Ly V. (Art Unit: 275)

Assistant Examiner: Hamdan, Wassem

Combined Principal Attorneys: Gibson, Peter

	Publication Number	Kind	Date	Application Number	Filing Date
Main Patent	US 6003134	A	19991214	US 97872	19971230
CIP	US 5754762	A		US 97782063	19970113

Fulltext Word Count: 8199

#### Summary of the Invention:

...capability of magnetically storing information, has more recently emerged as a valuable product for facilitating **financial** services primarily. **Cards** with an IC microprocessor **embedded** inside and with external contacts for communication with an interface device are known commonly as...

...which is the logical opposite of an identifier is used. The conventional use of an **identifier** requires that an AND **identification** exist in order to allow a program to be run. In the disclosure of Geronimi...

**22/3,K/48 (Item 43 from file: 654)**

DIALOG(R)File 654:US PAT.FULL.

(c) Format only 2009 Dialog. All rts. reserv.

4240986

#### Utility

#### REASSIGNED, CERTIFICATE OF CORRECTION

#### System and method for pre-authorization of individual account transactions

Inventor: Watson, Craig, Sandy, UT

Assignee: GE Capital(02), UT

Examiner: MacDonald, Allen R. (Art Unit: 277)

Assistant Examiner: Myhre, James W.

Law Firm: Workman, Nydegger & Seecley

	Publication Number	Kind	Date	Application Number	Filing Date
Main Patent	US 5991750	A	19991123	US 97957419	19971024

Fulltext Word Count: 8940

#### Summary of the Invention:

...a transaction amount and other parameters such as a standard industrial code (SIC), a merchant **identifier** (MID) and an acquiring bank **identification** number (BIN...

...through a card company 110 (e.g., MasterCard(R), VISA(R), Discover Card(R) or **American Express** (R)) prior to reaching **authorizing** agent 112 for comparison of account parameters. Authorizing agent 112 compares the transaction parameters for...

...the quotation process, an acceptable variance or deviation range from the quotation amount, a merchant **identifier** (MID) or an acquiring bank **identification** number (BIN) are dispatched to the card issuer. It should

be pointed out that in...

**22/3,K/49 (Item 44 from file: 654)**

DIALOG(R)File 654:US PAT.FULL.

(c) Format only 2009 Dialog. All rts. reserv.

4138571 \*\*IMAGE Available

Derwent Accession: 1999-287161

**Utility**

M/ **Electronic shopping and merchandising system**

Inventor: Blinn, Arnold, Bellevue, WA

Cohen, Michael Ari, San Francisco, CA

Lorton, Michael, Redmond, WA

Stein, Gregory J., Redmond, WA

Assignee: Microsoft Corporation(02), Redmond, WA

Microsoft Corp (Code: 32791)

Examiner: Tkacs, Stephen R. (Art Unit: 271)

Law Firm: Lee & Hayes, PLLC

	Publication Number	Kind	Date	Application Number	Filing Date
Main Patent	US 5897622	A	19990427	US 96732012	19961016

Fulltext Word Count: 15038

Description of the Invention:

...the store, in addition to the directories where the template files reside. The "shopper[sub]-- id " portion specifies the **unique** shopper **identifier** . Lastly, the "template.html" portion is the name of the HTML template to use to...

...A purchase.html page presents the order total and provides a form for entry of **credit card** payment information. To **confirm** purchases, a confirmed.html page presents a message confirming completion of the purchase transaction. Similarly...

**22/3,K/50 (Item 45 from file: 654)**

DIALOG(R)File 654:US PAT.FULL.

(c) Format only 2009 Dialog. All rts. reserv.

4059008 \*\*IMAGE Available

Derwent Accession: 1996-180105

LitAlert Accession: P2004-10-39; P2003-45-49; P1998-48-05; P2001-19-16

\*\*See File 670 for Litigation

**Utility**

**REASSIGNED**

E/ **Computerized system for making payments and authenticating transactions over the internet**

Inventor: Stein, Lee H., Rancho Santa Fe, CA

Stefflerud, Einar A., Huntington Beach, CA

Borenstein, Nathaniel S., Morristown, NJ

Rose, Marshall T., Mountain View, CA

Assignee: First Virtual Holdings Incorporated(02), San Diego, CA

First Virtual Holdings Inc  
Examiner: Hayes, Gail O. (Art Unit: 271)  
Assistant Examiner: Groult, Phillip  
Law Firm: Brinks Hofer Gilson & Lione

	Publication Number	Kind	Date	Application Number	Filing Date
Main Patent	US 5826241	A	19981020	US 94308101	19940916

Fulltext Word Count: 11142

Description of the Invention:

...payment, to the payment system 10. Typically, this may be done by using a conventional **authorization** to **charge** a **credit card**. The pay-in selection is not encoded in or directly derivable from the cardnumber...

...validity of the buyer's credit card number, e.g. pay-in selection 108B, to **determine** whether the **credit card** is lost, stolen, expired, overlimit, etc...number, Internet e-mail address 104, and the currency preference 112, language, and preferred account **identifier ID**.

**22/3,K/51 (Item 46 from file: 654)**

DIALOG(R)File 654:US PAT.FULL.

(c) Format only 2009 Dialog. All rts. reserv.

4000966 \*\*IMAGE Available  
Derwent Accession: 1998-377132

**Utility**

**CERTIFICATE OF CORRECTION**

**E/ System and method for mapping driver level event function calls from a process-based driver level program to a session-based instrumentation control driver level system**

**; COMPUTER-READABLE STORAGE MEDIA**

Inventor: Mondrik, Dan, Austin, TX

DeKey, Samson, Austin, TX

Andrade, Hugo, Austin, TX

Assignee: National Instruments Corporation(02), Austin, TX

National Instruments Corp (Code: 44437)

Examiner: Auve, Glenn A. (Art Unit: 271)

Law Firm: Conley, Rose & Tayon

Combined Principal Attorneys: Hood, Jeffrey C.

	Publication Number	Kind	Date	Application Number	Filing Date
Main Patent	US 5771388	A	19980623	US 97851834	19970506
Continuation	US 5640572	A		US 95432601	19950501
CIP	US 5724272	A		US 94238480	19940504

Fulltext Word Count: 24277

Description of the Invention:

...purpose of the isctintr function call is to enable specific interrupts within the system. The **id** parameter is a session **identifier** returned from an iopen() call or an igetintfssess() call in the SICL Driver level library...

...step 408, then in step 410 the method calls the VISA operation viDisableEvent with the **VISA** event type **determined** in step 404 and operation completes. Thus, a secvl of 0 disables the interrupt. If...

...method calls the VISA operation viEnableEvent with VI[sub]-- HNDLR as a parameter and the **VISA** event type **determined** in step 404. If the ionintr SICL function is determined to have not been called...

...the VISA operation viEnableEvent with VI[sub]-- SUSPEND[sub]-- HNDLR as a parameter and the **VISA** event type **determined** in step 404. Therefore, when the secvl parameter is 0, interrupts are disabled. If the...

...The ionintr function call includes two function parameters, referred to as id and proc. The **id** parameter is a session **identifier** returned from a SICL function call iopen() or igetintfssess(). The proc parameter identifies a procedure...

...call ionsrq includes two parameters referred to as id and proc. As mentioned above, the **id** parameter is a session **identifier** returned from a SICL function iopen() or igetintfssess(). The proc parameter identifies a procedure to...

**22/3,K/52 (Item 47 from file: 654)**

DIALOG(R)File 654:US PAT.FULL.

(c) Format only 2009 Dialog. All rts. reserv.

3989567 \*\*IMAGE Available

Derwent Accession: 1996-445103

Utility

**EXPIRED**

E/ Recording of images

Inventor: Ward, Paul Courtenay, Watford, GB

Assignee: Eastman Kodak Company(02), Rochester, NY

Eastman Kodak Co (Code: 25784)

Examiner: Evans, F. L. (Art Unit: 255)

Combined Principal Attorneys: Noval, William F.

	Publication Number	Kind	Date	Application Number	Filing Date	
Main Patent	US 5760386		A 19980602	US 96634318	19960418	
Priority			GB 9524319	19951123		

Fulltext Word Count: 3678

Summary of the Invention:



...321,751 describes a system in which image information relating to a holder of a **credit card** is **embedded** in the card. A photograph of the holder is converted to a digital image which...

...of the present invention, there is provided a method of recording an image of a **unique personal identifier** of a person on an **identification** document, the identification document including a region on to which the image is recorded, the...

...a) capturing an image of the **unique personal identifier** of the person to whom the identification document relates...

...Preferably, the **unique personal identifier** comprises an image of the person to whom the identification document is issued. However, it...

...It is preferred that the **unique personal identifier** may be captured using a digital camera. Alternatively, a print, negative or transparency bearing an image of the **unique personal identifier** of the person to whom the identification document relates, may be digitally scanned...

...the present invention, there is provided an identification document including a compressed image of a **unique personal identifier** of a person to whom the document relates recorded in a magnetic medium...

**22/3,K/53 (Item 48 from file: 654)**

DIALOG(R)File 654:US PAT.FULL.

(c) Format only 2009 Dialog. All rts. reserv.

3856200 \*\*IMAGE Available

Derwent Accession: 1997-332373

**Utility**

**E/ System and method for mapping driver level event function calls from a process-based driver level program to a session-based instrumentation control driver level system**

Inventor: Mondrik, Dan, Austin, TX

DeKey, Samson, Austin, TX

Andrade, Hugo, Austin, TX

Assignee: National Instruments Corporation(02), Austin, TX

National Instruments Corp (Code: 44437)

Examiner: Auve, Glenn A. (Art Unit: 235)

Combined Principal Attorneys: Hood, Jeffrey C.Conley, Rose & Tayon

	Publication Number	Kind	Application Date	Filing Number	Date
Main Patent	US 5640572	A	19970617	US 95432601	19950501
CIP	Pending			US 94238480	19940504

Fulltext Word Count: 24048

**Description of the Invention:**

...purpose of the isetintr function call is to enable specific interrupts within the system. The **id** parameter is a session **identifier** returned from an **ioopen.oval-hollow** call or an **igetintfssess.oval-hollow** call in the...

...step 408, then in step 410 the method calls the VISA operation viDisableEvent with the **VISA** event type **determined** in step 404 and operation completes. Thus, a secvl of 0 disables the interrupt. If...

...method calls the VISA operation viEnableEvent with VI[sub]-- HNDLR as a parameter and the **VISA** event type **determined** in step 404. If the ionintr SICL function is determined to have not been called...

...the VISA operation viEnableEvent with VI[sub]-- SUSPEND[sub]-- HNDLR as a parameter and the **VISA** event type **determined** in step 404. Therefore, when the secvl parameter is 0, interrupts are disabled. If the...

...The ionintr function call includes two function parameters, referred to as id and proc. The **id** parameter is a session **identifier** returned from a SICL function call iopen.oval-hollow. or igetintfss.oval-hollow.. The proc...

...call ionsrq includes two parameters referred to as id and proc. As mentioned above, the **id** parameter is a session **identifier** returned from a SICL function iopen.oval-hollow. or igetintfss.oval-hollow.. The proc parameter...

#### 22/3,K/54 (Item 49 from file: 654)

DIALOG(R)File 654:US PAT.FULL.

(c) Format only 2009 Dialog. All rts. reserv.

3805056 \*\*IMAGE Available

Derwent Accession: 1997-086719

#### Utility

#### REASSIGNED, EXPIRED

#### E/ System and method for simultaneously collecting serial number information from numerous identity tags

Inventor: Doty, Michael A., Manteca, CA

Assignee: The Regents of the University of California(02), Oakland, CA  
California, University of Regents (Code: 13234)

Examiner: Hajec, Donald T. (Art Unit: 254)

Assistant Examiner: Filipek, Jeffrey R.

Combined Principal Attorneys: Sartorio, Henry P.; Main, Richard B.

	Publication Number	Kind	Application Date	Filing Number	Date
Main Patent	US 5591951	A	19970107	US 95542214	19951012

Fulltext Word Count: 5267

#### Summary of the Invention:

...The identifying device may take the shape of a **credit card** having an electronic circuit **embedded** therein for radiating signals of identifying intelligence. An individual possessing the card may position it...

...or power to a portable identifier device, e.g., card, tag, key. In

response, the **identifier** device sends a coded **identification** signal back to the reader. Means must be provided so that the two directions of

...

**22/3,K/55 (Item 50 from file: 654)**

DIALOG(R)File 654:US PAT.FULL.

(c) Format only 2009 Dialog. All rts. reserv.

3552193 \*\*IMAGE Available

Derwent Accession: 1991-164401

**Utility**

E/ **Non-minutiae automatic fingerprint identification system and methods**

Inventor: Gagne, Patricia C., Coventry, RI

Puterko, Carol M., Coventry, RI

Assignee: TMS Inc.(02), Coventry, RI

TMS Inc

Examiner: Couso, Jose L. (Art Unit: 266)

Law Firm: Shoemaker and Mattare, Ltd.

	Publication Number	Kind	Application Date	Filing Number	Date
Main Patent	US 5363453	A	19941108	US 9335483	19930322
Continuation	Abandoned			US 89430421	19891102

Fulltext Word Count: 10988

Summary of the Invention:

...a retail credit card, a smart card, or others as set forth hereinafter. The numeric **identifier** of such portable personnel **identification** means is previously derived in accordance with the teachings of the present invention and then...

...identification of an individual submitting him or herself for identification for the purpose of: retail **credit card** purchases, **authorized** entry, check cashing, obtaining a driver's license, showing proof of age via a driver...

...of the digit print image, and this digitized numerical identifier is compared with a numerical **identifier** read from an **identification** card means identifying the person to be identified, to verify the identity of that person...

...identification cards, as exemplified by the provision disclosed herein of a non-minutiae digitized numerical **identifier** having 24 bytes of fingerprint **identification** data...

...card personal to the person and therefore, the present invention facilitates the use of a **credit card** as a **verifiable** identification card for entitling the user to certain services such as charged purchases and check...

Description of the Invention:

...magnetic stripe) which contains his or her encrypted verification data (i.e., encrypted digitized numerical **identifier**), the **identification** card is then placed in the card reader for retrieval and decryption of the "comparison...

...the confines of a portable personnel identification means, personal to a person, such as a **credit card** or a smart card; identity **verification** of a person to be identified with or without an encryption scheme; and payable check...

...identifiers indicative of the fingerprints of such persons, and recording the non-minutiae digitized numerical **identifiers** within **identification** means, personal to such persons; or (2) performing such a service but providing the derived...

...indicative of a fingerprint of a person submitting the check for cashing, with the numerical **identifier** contained within a portable personnel **identification** means submitted by such person for identification as the check payee of the check payable...

...application of the present invention, where verification of identity is accomplished by comparing the numerical **identifier** of **identification** means with the non-minutiae digitized numerical identifier derived from a fingerprint of such person...

**22/3/K/56 (Item 51 from file: 654)**

DIALOG(R)File 654:US PAT.FULL.

(c) Format only 2009 Dialog. All rts. reserv.

3325865 \*\*IMAGE Available

Derwent Accession: 1992-381484

**Utility**

**EXPIRED**

**E/ Proximity identification system with flux concentration in operating region**

Inventor: Walton, Charles A., 19115 Overlook Rd., Los Gatos, CA, 95030

Assignee: Unassigned

Unassigned Or Assigned To Individual (Code: 68000)

Examiner: Yusko, Donald J. (Art Unit: 264)

Assistant Examiner: Holloway, III, Edwin C.

Combined Principal Attorneys: Schatzel, Thomas E.

	Publication Number	Kind	Application Date	Filing Number	Date
Main Patent	US 5159332		A 19921027	US 91670359	19910314
Continuation	Abandoned			US 89361560	19890605

Fulltext Word Count: 4245

Summary of the Invention:

...devices in their possession. For example, the identifying device may take the shape of a **credit card** and have an electronic circuit **embedded** therein for radiating signals of identifying intelligence. An individual possessing the card may position it...

...System", issued Oct. 8, 1985; U.S. Pat. No. 4,580,041 for "Electronic Proximity **Identification** System With Low Power **Identifier** , Simplified", issued Apr. 1, 1986; U.S. Pat. No. 4,600,829 for "Electronic Proximity...

...Angle Detection", issued Mar. 31, 1987; U.S. Pat. No. 4,656,472 for "Proximity **Identification** System With Power Aided **Identifier** ", issued Apr. 7, 1987; and U.S. Pat. No. 4,782,342 for "Proximity Identification ...

...time duration between each of said pulses. The combination of the short pulses in the **identifier** signal and the **unique** configuration of the reader antenna give the present invention improved range and data transmission reliability...

### 22/3,K/57 (Item 52 from file: 654)

DIALOG(R)File 654:US PAT.FULL.

(c) Format only 2009 Dialog. All rts. reserv.

3174618 \*\*IMAGE Available

Derwent Accession: 1991-185349

Utility

**EXPIRED**

E/ **Capacitance coupled proximity identification system**

Inventor: Walton, Charles A., 19115 Overlook Rd., Los Gatos, CA, 95030

Assignee: Unassigned

Unassigned Or Assigned To Individual (Code: 68000)

Examiner: Yusko, Donald J. (Art Unit: 264)

Assistant Examiner: Magistre, Dervis

Combined Principal Attorneys: Schatzel, Thomas E.

	Publication Number	Kind	Application Date	Filing Number	Date
Main Patent	US 5021778	A	19910604	US 89405531	19890911

Fulltext Word Count: 4665

#### Summary of the Invention:

...Uses for such systems may include **identification** of persons having **identifier** sections in their possession. For example, the identifier section may take the shape of a **credit card** and have an electronic circuit **embedded** therein for radiating signals of identifying intelligence. An individual possessing the card may position it...

...System", issued Oct. 8, 1985; U.S. Pat. No. 4,580,041 for "Electronic Proximity **Identification** System With Low Power **Identifier** , Simplified", issued Apr. 1, 1986; U.S. Pat. No. 4,600,829 for "Electronic Proximity...

...Angle Detection", issued Mar. 31, 1987; U.S. Pat. No. 4,656,472 for "Proximity **Identification** System With Power Aided **Identifier** ", issued Apr. 7, 1987; and U.S. Pat. No. 4,782,342 for "Proximity Identification ...

**22/3,K/58 (Item 53 from file: 654)**

DIALOG(R)File 654:US PAT.FULL.

(c) Format only 2009 Dialog. All rts. reserv.

2914277 \*\*IMAGE Available

Derwent Accession: 1988-330257

**Utility**

**EXPIRED**

**E/ Proximity identification system with lateral flux paths**

Inventor: Walton, Charles A., 19115 Overlook Rd., Los Gatos, CA, 95030

Assignee: Unassigned

UNASSIGNED OR ASSIGNED TO INDIVIDUAL (Code: 68000)

Examiner: Crosland, Donnie L. (Art Unit: 268)

Combined Principal Attorneys: Schatzel, Thomas E.

	Publication Number	Kind	Date	Application Number	Filing Date
Main Patent	US 4782342	A	19881101	US 86892120	19860804

Fulltext Word Count: 7486

Summary of the Invention:

...devices in their possession. For example, the identifying device may take the shape of a **credit card** and have an electronic circuit **embedded** therein for radiating signals of identifying intelligence. An individual possessing the card may position it...

...Signal", issued Dec. 10, 1982; U.S. Pat. No. 4,580,041 for "Electronic Proximity **Identification** System with Low Power **Identifier**, Simplified"; U.S. Pat. No. 4,600,829 for "Electronic Proximity Identification and Recognition System..."

...can be such that standing wave effects occur. This can interfere with the transmission of **identification** data from the **identifier** section to the reader section...

...It is therefore an object of the present invention to provide an electronic proximity **identification** system where the **identifier** section can be attached to an object without a reduction in range or reliability...

...It is therefore an advantage of the present invention that it provides an electronic proximity **identification** system where the **identifier** section can be attached to an object without a reduction in range or reliability...

**22/3,K/59 (Item 54 from file: 654)**

DIALOG(R)File 654:US PAT.FULL.

(c) Format only 2009 Dialog. All rts. reserv.

2783910 \*\*IMAGE Available

Derwent Accession: 1986-219864

**Utility**

**EXPIRED**

E/ **Offline PIN validation with DES**

Inventor: Matyas, Stephen M., Kingston, NY

Assignee: International Business Machines Corporation(02), Armonk, NY

INTERNATIONAL BUSINESS MACHINES CORP (Code: 42640)

Examiner: Cangialosi, Salvatore (Art Unit: 222)

Assistant Examiner: Lewis, Aaron J.

Combined Principal Attorneys: Clark, George E.; Whitham, C. Lamont

	Publication Number	Kind	Date	Application Number	Filing Date
Main Patent	US 4661658	A	19870428	US 85700897	19850212

Fulltext Word Count: 6448

Description of the Invention:

...customer is issued a PIN and a bank card on which is recorded a user **identifier ID**, a **unique** secret personal key KP, and other information including information that allows a verification value V...

...the example given in FIG. 2 where  $n=3$ , the other information stored on the **bank card** necessary to allow a **verification** value V to be calculated would consist of a 56-bit value selected from each...

...5,6,7, and 010, represent the necessary information that must be stored on the **bank card** to allow the **verification** value V to be calculated. Referring now to FIG. 3, there is a diagram illustrating...

**22/3,K/60 (Item 55 from file: 654)**

DIALOG(R)File 654:US PAT.FULL.

(c) Format only 2009 Dialog. All rts. reserv.

2778322 \*\*IMAGE Available

Derwent Accession: 1987-115982

**Utility**

**EXPIRED**

E/ **Proximity identification system with power aided identifier**

Inventor: Walton, Charles A., 19115 Overlook Rd., Los Gatos, CA, 95030

Assignee: Unassigned

UNASSIGNED OR ASSIGNED TO INDIVIDUAL (Code: 68000)

Examiner: Weldon, Ulysses (Art Unit: 264)

Assistant Examiner: Smith, Ralph E.

Combined Principal Attorneys: Schatzel, Thomas E.

	Publication Number	Kind	Date	Application Number	Filing Date
Main Patent	US 4656472	A	19870407	US 85693992	19850123

Fulltext Word Count: 4404

Summary of the Invention:

...devices in their possession. For example, the identifying device may take the shape of a **credit card** and have an electronic circuit **embedded** therein for radiating signals of identifying intelligence. An individual possessing the card may position it...

...Signal", filed Dec. 10, 1982; U.S. Pat. No. 4,580,041 for "Electronic Proximity **Identification** System with Low Power **Identifier** , Simplified", filed on Dec. 9, 1983; U.S. Pat. No. 4,600,829 for "Electronic...

...It is also an object of the present invention to provide an electronic recognition and **identification** system with a battery powered **identifier** which can be recharged when brought in close proximity to the reader...

...an exemplary embodiment of the present invention, the system incorporates a reader section and an **identifier** section. The **identifier** section contains **identification** data which the reader section interrogates for and then receives. The identifier section does not...

**22/3,K/61 (Item 56 from file: 654)**

DIALOG(R)File 654:US PAT.FULL.

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2776353 \*\*IMAGE Available  
Derwent Accession: 1987-108444

**Utility**

**EXPIRED**

**E/ Identification system with vector phase angle detection**

Inventor: Walton, Charles A., 19115 Overlook Rd., Los Gatos, CA, 95030

Assignee: Unassigned

UNASSIGNED OR ASSIGNED TO INDIVIDUAL (Code: 68000)

Examiner: Weldon, Ulysses (Art Unit: 264)

Combined Principal Attorneys: Schatzel, Thomas E.

	Publication Number	Kind	Application Date	Filing Number	Date
Main Patent	US 4654658	A	19870331	US 84637546	19840803

Fulltext Word Count: 3869

Summary of the Invention:

...devices in their possession. For example, the identifying device may take the shape of a **credit card** and having an electronic circuit **embedded** therein for radiating signals of identifying intelligence. An individual possessing the card may position it...

...filed on Dec. 10, 1982; U.S. Pat. No. 4,580,041 for "Electronic Proximity **Identification** System With Simplified Low Power **Identifier** ," issued Apr. 1, 1986; and U.S. Pat. No. 4,600,829 for "Electronic



Proximity...

...drives a reader antenna. Power is radiated by and from the reader antenna to the **identifier** antenna in the **identification** section. The clock and memory system emit logic value signals which in turn vary the ...

**22/3,K/62 (Item 57 from file: 654)**

DIALOG(R)File 654:US PAT.FULL.

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2717697 \*\*IMAGE Available

Derwent Accession: 1986-204394

**Utility**

**EXPIRED**

**E/ Electronic proximity identification and recognition system with isolated two-way coupling**

Inventor: Walton, Charles A., 19115 Overlook Rd., Los Gatos, CA, 95030

Assignee: Unassigned

UNASSIGNED OR ASSIGNED TO INDIVIDUAL (Code: 68000)

Examiner: Trafton, David L. (Art Unit: 233)

Combined Principal Attorneys: Schatzel, Thomas E.

	Publication Number	Kind	Application Date	Filing Number	Date
Main Patent	US 4600829	A	19860715	US 84596065	19840402

Fulltext Word Count: 3118

**Summary of the Invention:**

...devices in their possession. For example, the identifying device may take the shape of a **credit card** having an electronic circuit **embedded** therein for radiating signals of identifying intelligence. An individual possessing the card may position it...

...receiving in the reader and separate coils for transmitting and receiving in the identifier. The **identifier** is portable and contains **identification** data which the reader receives and interrogates when the identifier is inductively coupled to the...

**22/3,K/63 (Item 58 from file: 654)**

DIALOG(R)File 654:US PAT.FULL.

(c) Format only 2009 Dialog. All rts. reserv.

2412786 \*\*IMAGE Available

Derwent Accession: 1980-H4612C

**Utility**

**REASSIGNED**

**E/ Transaction execution system with improved key function versatility**

Inventor: Anderson, Robert W., Morgan Hill, CA

Gee, May L., San Jose, CA

McMullen, Alice K., Campbell, CA

Assignee: International Business Machines Corporation(02), Armonk, NY  
INTERNATIONAL BUSINESS MACHINES CORP (Code: 42640)  
Examiner: Springborn, Harvey E. (Art Unit: 237)  
Combined Principal Attorneys: Beckstrand, Shelley M.

	Publication Number	Kind	Date	Application Number	Filing Date
Main Patent	US 4319336	A	19820309	US 799384	19790202

Fulltext Word Count: 25880

Description of the Invention:

...determine the status of or to transfer funds out of a savings account. The FROM **CREDIT CARD** key is used to **determine** the status of or to transfer funds out of a credit card account. The FROM...c. The language **ID** and institution message **identifier** used with this FIT entry...